Report

Second Half 2019 Operations and Monitoring Report
Remedial Action Pilot Study

Former J.H. Baxter & Co. Wood Treating Facility
Arlington, Washington

Prepared for

U.S. Environmental Protection Agency
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February 2020

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1. Significant Developments This Period

The recirculation trench has operated as designed with a total flow rate of approximately 45 to 50 gallons per minute (gpm) from extraction wells EW-1, EW-2, EW-4, and EW-5. There have been no high alarms in the infiltration trench since rehabilitation of the system in July 2015.

Since the first and second quarter monitoring events in 2016, pentachlorophenol (PCP) concentrations have decreased in several wells, including multiple downgradient wells. This suggests the effects of the rehabilitation of the recirculation system and addition of the in situ submerged oxygen curtains (iSOCs) are reducing concentrations downgradient of the system. See Section 4.2 for more details regarding PCP concentrations observed during the second half of 2019.

2. Introduction

The J.H. Baxter Team, consisting of J.H. Baxter & Co. (Baxter) and GSI Water Solutions, Inc. (GSI), has prepared this *Second Half 2019 Operations and Monitoring Report – Remedial Action Pilot Study* (O&M report) for the former J.H. Baxter wood-treating facility (Site) that currently is operated by McFarland Cascade Holdings, Inc. (a Stella-Jones Company), located at 6520 188th Street NE in Arlington, Washington (Figure 1). This report has been prepared for the U.S. Environmental Protection Agency (EPA) to document the results of groundwater monitoring and remedial action for the Site during the second half of 2019 (June 30, 2019 to December 31, 2019).

The Remedial Action Pilot Study is considered to be part of the ongoing Corrective Measures Study (CMS; Baxter, 2011), which is being implemented pursuant to Paragraph 53 of the EPA Administrative Order on Consent (AOC) dated April 30, 2001 (EPA, 2001). CMS-related activities were conducted consistent with guidance provided by EPA in the RCRA Corrective Action Plan (Final), dated May 1994 (EPA, 1994); Corrective Actions Advance Notice of Proposed Rulemaking (EPA, 1996); and the AOC.

This semiannual report fulfills the documentation required for the ongoing operations and maintenance (O&M) related to the *Remedial Action Pilot Study Work Plan* (Baxter, 2007a) and *Remedial Action Pilot Study Performance Monitoring Plan* (PMP; Baxter, 2007b), which were submitted to EPA in 2007.

3. Remedial Action Pilot Study

The Remedial Action Pilot Study was designed to enhance in situ bioremediation and passive recovery of light nonaqueous-phase liquid (LNAPL). The pilot study includes an extraction well network, infiltration trench, recovery wells, and monitoring well network (Figure 2). The pilot study installation was completed in January 2008, with six additional monitoring wells added in 2010.

The purpose of the enhanced in situ bioremediation (the recirculation system) is to increase groundwater pH for favorable conditions for biodegradation of PCP. The system also adds oxygen by pumping the reduced water and allowing it to cascade through the vadose zone, picking up oxygen before reaching the groundwater table. The recirculation system uses four extraction wells to extract affected groundwater, which is pumped in an infiltration trench upgradient of the extraction wells. The infiltration trench is composed of basalt gravel and limestone rock, which is intended to raise the pH of the affected groundwater when contact is made. Additionally, LNAPL is passively recovered in five recovery wells with the installation of sorbent socks.

4. Operations, Maintenance, and Monitoring

Routine monitoring changed from monthly to quarterly in July 2010 with EPA's approval (EPA, 2010). EPA approved another reduction in reporting from quarterly to semiannual O&M reports in its May 18, 2015, letter (EPA, 2015b). Routine monitoring includes:

- Record groundwater level measurements in the monitoring well network.
- Collect groundwater samples from the monitoring well network.
- Collect a composite groundwater sample from the extraction wells.
- Inspect the sorbent socks in the recovery wells and replace if saturated.

4.1 Groundwater Level Measurements

Groundwater monitoring events occurred on September 14 and 15, 2019 for the third quarter of 2019 and on December 28 and 29, 2019 for the fourth quarter of 2019. The groundwater elevations from the third and fourth quarter 2019 monitoring events, and the previous four monitoring events, are presented in Table 1.

A groundwater elevation contour map of the third and fourth quarter 2019 monitoring events is presented in Figures 3 and 4, respectively. At the time groundwater measurements were collected, extraction wells EW-1, EW-2, EW-4, and EW-5 were running.

Appendix A provides additional figures with more detailed analyses of groundwater elevations across select well at the Site. Figure A-1 is a cross section location map. Figures A-2 through A-5 present the groundwater elevations along each cross section from the third and fourth quarter 2019 monitoring events. The wells along each transect have been identified as a shallow well, intermediate well, or deep well based on the following classifications:

- A shallow well has the elevation of the bottom of the screen above 90 feet, North American Vertical Datum of 1988 (NAVD88).
- An intermediate well has the elevation of the bottom of the screen between 70 and 90 feet, NAVD88.
- A deep well has the elevation of the bottom of the screen below 70 feet, NAVD88.

Well clusters of different screened intervals were used to evaluate vertical gradients. The vertical gradients for each well pair are presented in Table 2 and Figure 5, where a negative

gradient indicates an upward trend and a positive gradient indicates a downward trend. In Appendix A, Figures A-2 through A-5 display the vertical gradients for select well pairs. Figures A-4 and A-5 show that water levels in the shallow zone, where the extraction and infiltration occurred, were generally higher in the area of infiltration and lower in the area of extraction, as would be expected. The MW-25/MW-32 well pair (Figure 5) shows a downward gradient that is consistent with past trends and is to be expected near the infiltration trench, where shallow water levels are elevated because of the infiltrating groundwater. In between the infiltration trench and extraction wells, at well pair MW-3/MW-33, an upward vertical gradient was observed during second half of 2019. A slight upward vertical gradient between the deep zone and shallow zone near the extraction wells (MW-29/MW-38 well pair) was also observed in the second half of 2019.

Hydrographs for select monitoring wells representative of aquifer conditions throughout different portions of the site are presented in Appendix A (Figures A-6 through A-11) along with precipitation data. Daily precipitation data, consisting of rain and snowmelt, are from the National Climatic Data Center's station in Arlington, Washington. Trends between the groundwater elevation and precipitation are shown in the hydrographs, with groundwater levels rising after periods of lower precipitation and groundwater levels decreasing after periods of low or no precipitation. Groundwater elevations have shown a falling trend in the second half of 2019 due to lower than typical precipitation levels.

4.2 Groundwater Monitoring and Water Quality

The second half of 2019 groundwater monitoring occurred on September 14 and 15, 2019 for the third quarter of 2019 and on December 28 and 29, 2019 for the fourth quarter of 2019. In the monitoring well network, 26 monitoring wells were sampled in the third quarter and 28 monitoring wells were sampled during the fourth quarter. A composite sample of EW-1, EW-2, and EW-4 wells, was collected in third quarter of 2019. Only EW-1 and EW-4 were collected in the fourth quarter of 2019 and erroneously not composited but rather analyzed individually as EW-1 and EW-4. All monitoring wells sampled were analyzed for PCP by EPA Method 8270D SIM. PCP was not analyzed on the extraction well samples but rather just breakdown products using EPA Method 8270D. Baxter will continue to work with the new laboratory to understand sampling requirements better moving forward.

Wells were sampled using dedicated submersible bladder pumps in "Site Investigation" wells installed before 2004, and a portable submersible pump in "PMP" wells installed in 2007 or later that was decontaminated after sampling each well. The exceptions being MW-2, MW-35, and MW-36 which are normally sampled using dedicated pumps. The dedicated pumps for these three wells were not operational during the fourth quarter of 2019, and instead a decontaminated portable submersible pump was used for sampling.

Groundwater samples were collected by Baxter contractor in general accordance with the *Revised Supplemental Dissolved-phase Groundwater Monitoring Plan* (Baxter, 2005) and *Site Investigation Work Plan* (Baxter, 2002). Samples were analyzed by Eurofins in Tacoma, Washington. Laboratory reports are presented in Appendix B. Monitoring well analytical results are summarized in Table 3A. Extraction well analytical results are summarized in Tables 3B and 3C.

PCP results and isopleth maps for the third and fourth quarters of 2019 in the shallow and intermediate zones are presented in Figures 6 and 7, respectively. The third and fourth quarters of 2019 PCP results and isopleth maps for the deep zone are presented in Figures 8 and 9, respectively. Figure 10 displays the PCP concentrations from the fourth quarter of 2019 along a cross-section longitudinal to the PCP plume. Time series plots of PCP concentrations in select wells are presented in Appendix C.

Generally, PCP concentrations in the second half of 2019 are consistent with previous monitoring events. The exceptions (presented in Appendix C) are:

- **BXS-1 (Figure C-1)**: Since second quarter of 2018, the PCP concentration in BXS-1 has generally increased from less than method detection limit of 0.71 µg/L to 110 µg/L in the fourth quarter of 2019. This well is downgradient of EW-1 but potentially within the edge of influence of the extraction system, which has been continuously operated since August 2015. This may be indicate that extraction wells are pulling more source materials towards the extraction system or loss of control of containment during low water elevations. Trends will continue to be monitored and this well and wells further downgradient to determine larger effects.
- **MW-3 (Figure C-2)**: MW-3 PCP results were near historic highs at this well during the third and fourth quarter of 2019 after being non-detect or at low concentrations since the start of 2016. This well is located near or within the original source area and may indicate the extraction system is more effective at capturing source material during low water elevations in the aquifer or contaminants are concentrated during lower groundwater elevations. Past spikes in detectable concentrations have also occurred in samples during second half sampling in 2014 and 2015. Based on hydrographs presented in Appendix A, 2019 had one of the lowest average monthly precipitation totals for a year since tracking began in 2008.
- **MW-33 (Figure C-6)**: From the second half of 2018 until the first quarter of 2019 PCP concentrations had been rising before falling again until the fourth quarter of 2019 when concentration once again are increasing. It is difficult to assess the general trend occurring and may be representative of historic trends but was more muted during wetter rain seasons. Also as MW-33 is located adjacent to MW-3, the trend exhibited in MW-3 is likely impacting concentrations inMW-33. Trends will continue to be monitored prior to making any assessment of the possible implications of recent results. This well is located upgradient from the extraction wells.
- **MW-40 (Figure C-8)**: A rising trend in PCP concentrations occurred during the second half of 2019. However, the increases in 2019 are less than past spikes that have occurred. This well is located downgradient of the extraction wells.

All remaining sampled wells continue to show a decreasing or stable low concentration trend in PCP concentrations. This includes monitoring wells upgradient of the extraction wells and monitoring wells downgradient of the recirculation system. The number of wells that show a downward trend of PCP has greatly increased since 2015, which likely is caused by the restored operation of the recirculation system. These wells will continue to be observed to determine the effect of the rehabilitation of the recirculation system. Wells farther downgradient of the recirculation system have historically have been shown to

benefit from the recirculation system and are all at non-detectable concentrations. Lack of continuity in data collection in 2019 due to multiple buried wells in downgradient locations prevents a more detailed understanding of the 2019 trends. However, historically the long term data shows these fluctuating PCP concentrations are likely associated with seasonal changes in groundwater elevation, but also may be associated with changes in gradients because of rehabilitation of the recirculation system.

The extraction well samples were a laboratory composite of discrete groundwater samples from EW-1, EW-2, and EW-4 in the third quarter and were analyzed for select PCP breakdown products. The concentration for break down products was below detection limits for the third quarter of 2019. The fourth quarter samples from EW-1 and EW-4 were erroneously not composited. Analysis of individual sample results indicate EW-4 would have contributed the target analytes to the composite, had the sample been analyzed as a composite. The results for third and fourth quarter are summarized in Tables 3b and 3c.

4.3 Extraction Wells

Extraction wells EW-01, EW-02, EW-04, and EW-05 were operating continuously during the third and fourth quarters of 2019 at a cumulative rate of approximately 45 to 50 gpm.

4.4 iSOC Wells

On August 1, 2015, during the recirculation trench rehabilitation, iSOCs were installed in three downgradient deep wells (MW-39, MW-40, and MW-41) to add oxygen to the deeper water-bearing zone. The oxygen from the iSOCs is regularly depleted with at least a portion of that being used for degradation of PCP. The oxygen tanks were replaced in MW-39 and MW-40 during the third quarter 2019 sampling event while MW-41 was buried. During the fourth quarter sampling event, the oxygen tank at only MW-40 was replaced due to burial of the well vaults from construction activities at both MW-39 and MW-41.

Since the iSOC installation in August 2015, PCP concentrations generally have decreased in MW-39, MW-40, and MW-41. While the data results at iSOC wells are more limited in the second half of 2019, it is unclear how much of the decrease in concentrations is attributable to the iSOCs versus the recirculation system; both appear to be having a positive effect on reducing PCP concentrations in the groundwater system downgradient of the system.

4.5 LNAPL Recovery

The following five wells have sorbent socks to passively absorb LNAPL:

- MW-12
- MW-13
- MW-19
- MW-20
- MW-21

MW-12 and MW-13 were inspected during the third and fourth quarter 2019. Based on visual assessment, the sorbent socks in MW-12 and MW-13 needed to be replaced during

the sampling events. Baxter stores spent sorbent socks in a 55-gal satellite drum and arranges for off-site disposal once full. Since the start of the pilot study, it has been observed that the sorbent socks in recovery wells MW-19, MW-20, and MW-21 consistently have less product sorbed compared to the sorbent sock in MW-12 and MW-13.

Both the MW-12 and MW-13 socks were considered fully adsorbed when removed during the fourth quarter 2018 sampling event but weights were not recorded and based on historical measurements, two pounds of LNAPL was estimated for each (Table 4). This calculation is typically determined based on the field measured mass of the unused portion of the sorbent sock from MW-12 and MW-13 subtracted from the mass of the saturated portion of the sock.

4.6 Quality Assurance and Quality Control

Groundwater sample data for the first and second quarter 2019 monitoring events were analyzed by GSI. The case narrative in the laboratory report (Appendix B) describes the flags or footnotes associated with exceptions to standard analytical protocols and is summarized below. The results are considered usable with the appropriate flags.

Sample coolers for the September and December 2019 monitoring events arrived at the laboratory in good condition and below EPA's 6 degrees Celsius (˚C) recommendation. In the third quarter 2019, nearly all bottles were received by the lab with very loose caps but appeared to contain full volumes. HCMW-7 arrived with very low volume. Although listed on the COC, MW-18 was not received by the lab.

During the third quarter 2019, MW-24 was outside of the control limits for surrogate recovery. Evidence of matrix interference was present during extraction and caused heavy emulsion, therefore, re-extraction and or re-analysis was not performed.

Fourth quarter samples for EW-4, BXS-1, MW-3, and MW-25 required dilution before sampling using EPA Method 8270D SIM. Reporting limits were adjusted accordingly. In order to bring concentration of target analytes within calibration range during the fourth quarter, BXS-1, MW-3, MW-25, MW-32, MW-33, MW-38, and MW-40 were diluted. Additionally, MW-35 and MW-45, were diluted due to the nature of the sample. Reporting limits were adjusted accordingly.

Due to the nature of the sample matrix, MW-3 and MW-25 were diluted. Because of this dilution, the surrogate spike concentration was reduced to a level where the recovery calculation did not provide useful information. No dilution was required for any third quarter samples.

It should be noted that analytes 2,3,4,6-Tetrachlorophenol and 2,3,5,6-Tetrachlorophenol were requested in both the third and fourth quarter. However, these analytes cannot be distinguished using TestAmerica's mass spectrometry methods due to co-elution and similar mass spectra; quantitation of these analytes is reported as 2,3,4,6-Tetrachlorophenol but is potentially the sum of both analytes. MW-35, MW-38, and MW-45 formed emulsions that required extra sodium sulfate to be broken up.

Eurofins qualified analytes with a concentration detected above the MDL, but below the MRL with a J-flag. This qualification indicates an estimated concentration because the result is quantitatively uncertain.

A field equipment rinsate blank was collected during the fourth quarter monitoring event. The PCP result for the rinsate sample yielded a non-detect. A rinsate blank was erroneously not collected during third quarter 2019.

Method blank samples were analyzed during the third and fourth quarter monitoring events. The blanks were analyzed for PCP. Method blank results were non-detect for both third and fourth quarter.

Two duplicate samples were collected during the third and fourth quarter monitoring events from BXS-1 and MW-30. The blind samples were analyzed for PCP. The parent sample and blind results were found to be comparable.

4.7 Activities Planned for the First Half of 2020

Quarterly groundwater monitoring events will continue in the first half of 2020 as outlined in the PMP. These monitoring events will include the same elements discussed in this O&M report: groundwater level measurements, groundwater sampling within the monitoring network and an extraction well composite sample, and inspection of the sorbent socks in the recovery wells. As development of the site continues an increased effort will be made to communicate with contractors and those involved in work on site to provide continuous unrestricted access to all wells.

5. References

Baxter. 2002. Site Investigation Work Plan J.H. Baxter Arlington Facility, Revision 2. Prepared by the J.H. Baxter Project Team for U.S. Environmental Protection Agency (EPA) Region 10. May 15, 2002.

Baxter. 2005. Revised Supplemental Dissolved-phase Groundwater Monitoring Plan. Prepared by the J.H. Baxter Team for EPA Region 10. October 25, 2005.

Baxter. 2007a. Remedial Action Pilot Study Work Plan. Prepared by the J.H. Baxter Project Team for EPA Region 10. September 2007.

Baxter. 2007b. Remedial Action Pilot Study Performance Monitoring Plan. Prepared by the J.H. Baxter Project Team for EPA Region 10. September 2007.

Baxter. 2011. Corrective Measures Study, Revision 2. Prepared by the J.H. Baxter Team for EPA Region 10. March 2011.

EPA. 1994. Resource Conversation and Recovery Act (RCRA) Corrective Action Plan (Final). OSWER Directive 9902.3-2A. May 1994.

EPA. 1996. Federal register, Vol. 61, No. 85, May 1, p. 19,432. U. S. Environmental Protection Agency.

EPA. 2001. Administrative Order of Consent, U.S. Environmental Protection Agency, Region 10, Docket No. RCRA-10-2001-0086. April 30, 2001.

EPA. 2010. Email message from Jan Palumbo, U.S. Environmental Protection Agency, to RueAnn Thomas, J. Stephan Barnett, and Gary Dupuy re: "Summary of 6/24/2010 Meeting Agreements." July 19, 2010.

EPA. 2015b. Comments on Remedial Action Pilot Study Operations and Monitoring Report, Fourth Quarter 2014, April Monthly Progress Report, and Response to Request for a Reduction in Reporting. U.S. Environmental Protection Agency. May 18, 2015.

Tables

Table 1. Groundwater Elevation Summary

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Well ID	Northing	Easting	Ground Surface Elevation (ft, NAVD88)	Top of Casing Elevation (ft, NAVD88)	Groundwater Elevations (ft, NAVD88)					
					9/29/2018	11/17/2018	3/17/2019	6/2/2019	9/14/2019	12/28/2019
BXS-1	427577	1320372.8	142.32	142.65	108.66	NM	NM	107.31	104.41	103.69
BXS-2	427429.1	1320176.6	141.09	142.89	110.34	NM	NM	NM	NM	105.39
BXS-3	427202.9	1320143.8	141.73	142.07	NM	NM	NM	NM	NM	NM
BXS-4	426556.4	1320865.9	143.05	143.42	131.97	NM	NM	NM	NM	NM
MW-1	427352.2	1320826.9	146.21	147.44	NM	NM	120.12	119.33	115.78	NM
MW-2	428166.9	1320647.4	144.69	145.96	106.35	106.72	106.11	105.20	102.18	101.54
MW-3	427560.7	1320596.2	143.92	146.13	109.13	107.05	109.00	NM	104.75	104.28
MW-4	425935.6	1321013.3	143.02	145.02	131.40	131.75	130.00	129.21	126.40	134.10
HCMW-5	427010.1	1320692.3	143.94	143.75	120.03	119.98	119.93	119.69	116.87	NM
HCMW-6	427887.2	1320815.7	146.69	146.36	110.78	110.64	110.55	110.07	110.44	NM
HCMW-7	428230.4	1320337.6	145.01	144.73	105.63	104.60	105.10	104.23	101.43	100.71
MW-10	427175.1	1320566	143.3	144.99	121.08	121.18	118.57	117.72	116.67	110.39
MW-11	427398.1	1321001	146.46	146.06	122.90	122.82	121.95	121.17	119.26	NM
MW-14	425602.6	1320388.9	139.88	141.70	NM	121.59	121.48	120.68	114.68	115.48
MW-15	427860	1320310.6	142.78	142.22	107.62	106.52	107.20	106.28	103.32	102.59
MW-16	428006.8	1320325.6	143.37	142.91	106.91	105.87	106.37	NM	103.05	101.85
MW-17	427863.6	1320173.9	142.17	144.85	107.49	106.35	107.02	106.09	103.22	102.45
MW-18	428312.7	1320075.7	142.79	142.45	105.21	104.21	104.61	NM	101.03	100.13
MW-22	427395.3	1320573.5	143.13	142.75	112.08	111.93	111.93	110.79	107.81	107.34
MW-23[1]	427500	1320578.2	143.47	143.18	111.02	110.52	109.16	109.45	106.70	106.18
MW-24	427563.9	1320645.1	144.47	144.13	110.04	109.10	109.17	108.05	104.93	104.43
MW-25	427492.9	1320682	145.45	144.98	113.86	113.74	114.08	112.86	106.14	110.28
MW-26	427601	1320773	145.13	144.75	110.69	108.45	109.55	108.29	105.15	104.71
MW-27	427677.9	1320702.8	144.62	144.31	109.17	108.44	109.31	107.98	105.15	104.31
MW-28	427502.3	1320488.8	143.02	142.77	109.77	109.41	109.59	108.53	105.67	105.16
MW-29	427637.7	1320503	142.85	142.61	107.78	107.54	108.47	107.45	104.37	103.77
MW-30	427836.7	1320483.2	142.64	142.4	108.18	107.79	107.87	106.86	103.87	103.20
MW-31	427715.8	1320294	141.15	140.95	108.03	107.87	107.75	106.69	NM	103.02
MW-32	427493.5	1320670.2	145.27	145.01	109.51	109.15	109.41	108.30	105.18	104.71
MW-33	427577.4	1320602	143.76	143.46	109.07	108.60	109.02	107.93	105.01	104.35
MW-34	427647.7	1320498.6	143.02	142.6	108.66	108.36	108.42	107.38	103.58	103.00
MW-35	427726.8	1320608.7	144.34	143.89	110.73	109.97	108.56	107.68	NM	103.89
MW-36	427676.1	1320399.4	141.57	141.15	108.41	108.23	108.23	107.05	104.11	103.43
MW-37	427969.4	1320251.9	142.37	141.96	106.12	106.05	106.54	105.26	NM	NM
MW-38	427653.6	1320491.4	143.36	143.28	109.32	109.12	108.40	107.34	104.33	104.43
MW-39	427993.1	1320148.9	142.73	142.40	106.64	106.23	106.00	105.17	102.29	NM
MW-40	427859.5	1320316.6	142.56	142.1	107.92	106.58	107.38	106.48	103.66	102.87
MW-41	427968.1	1320255	142.33	141.47	106.03	105.46	105.56	103.67	NM	NM
MW-42	428319.7	1320080.9	142.89	142.68	105.08	102.88	102.88	103.68	100.97	100.08
MW-43	428757.5	1319841.1	141.91	141.51	102.61	98.51	NM	100.95	99.44	97.49

Notes

NM = not measured

Table 2. Vertical Groundwater Gradients at Monitoring Well Pairs

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Vertical Groundwater Gradient[1,2]	Well Pair	3/17/2018	6/16/2018	9/29/2018	11/17/2018	3/17/2019	6/2/2019	9/14/2019	12/28/2019
Shallow to Intermediate Zone	MW-25/MW-32	0.2432	0.2446	0.2963	0.3127	0.2187	0.3106	0.0654	0.3794
	MW-3/MW-33	-0.0019	0.1954	0.0038	-0.0987	-0.0013	--	-0.0165	-0.0045
	MW-29/MW-34	0.0119	0.0459	-0.0499	-0.0465	-0.0499	0.0040	0.0448	0.0437
Shallow to Deep Zone	MW-29/MW-38	0.0062	0.0046	-0.0418	-0.0429	-0.0234	0.0030	0.0011	-0.0179
	MW-15/MW-40	-0.0043	-0.0128	-0.0080	-0.0016	-0.0048	-0.0053	-0.0091	-0.0075
Intermediate to Deep Zone	MW-37/MW-41	0.0819	0.0622	0.0037	0.0243	0.0403	0.0655	--	--

Notes:

[1] Vertical groundwater gradients are dimensionless.

[2] Gradients are calculated by shallower aquifer groundwater elevation minus deeper aquifer groundwater elevation divided by the distance between well screen midpoints. Positive values indicate a downward flow direction, while negative values indicate an upward flow direction.

Table 3A. Summary of Groundwater Sampling Analytical Results: Second Half 2019

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample Date	Pentachlorophenol
			(µg/L)
2019_09SIPMP	BXS-1	9/14/2019	70
2019_09SIPMP	BXS-2		
2019_09SIPMP	HCMW-7	9/14/2019	0.38
2019_09SIPMP	MW-15	9/14/2019	0.098 U
2019_09SIPMP	MW-16	9/14/2019	0.097 U
2019_09SIPMP	MW-17	9/15/2019	8.3
2019_09SIPMP	MW-18		
2019_09SIPMP	MW-2	9/14/2019	0.11 U
2019_09SIPMP	MW-22	9/14/2019	94
2019_09SIPMP	MW-23	9/14/2019	3.9
2019_09SIPMP	MW-24	9/15/2019	79
2019_09SIPMP	MW-25	9/15/2019	84
2019_09SIPMP	MW-26	9/15/2019	0.66
2019_09SIPMP	MW-27	9/15/2019	0.26
2019_09SIPMP	MW-28	9/14/2019	9.8
2019_09SIPMP	MW-29	9/14/2019	8.7
2019_09SIPMP	MW-3	9/14/2019	2300
2019_09SIPMP	MW-30	9/14/2019	0.093 U
2019_09SIPMP	MW-31		
2019_09SIPMP	MW-32	9/15/2019	720
2019_09SIPMP	MW-33	9/14/2019	29
2019_09SIPMP	MW-34	9/14/2019	0.53
2019_09SIPMP	MW-35		
2019_09SIPMP	MW-36	9/14/2019	35
2019_09SIPMP	MW-37		
2019_09SIPMP	MW-38	9/14/2019	0.55
2019_09SIPMP	MW-39	9/14/2019	9.3
2019_09SIPMP	MW-40	9/14/2019	59
2019_09SIPMP	MW-41		
2019_09SIPMP	MW-42	9/14/2019	1.9
2019_09SIPMP	MW-43	9/14/2019	0.76
2019_12SIPMP	BXS-1	12/28/2019	110
2019_12SIPMP	BXS-2	12/29/2019	0.56 J
2019_12SIPMP	HCMW-7	12/28/2019	0.62 J

Table 3A. Summary of Groundwater Sampling Analytical Results: Second Half 2019

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample Date	Pentachlorophenol (µg/L)
2019_12SIPMP	MW-15	12/28/2019	0.54 J
2019_12SIPMP	MW-16	12/28/2019	0.52 J
2019_12SIPMP	MW-17	12/28/2019	0.48 J
2019_12SIPMP	MW-18	12/28/2019	0.47 J
2019_12SIPMP	MW-2	12/28/2019	0.57 J
2019_12SIPMP	MW-22	12/29/2019	22
2019_12SIPMP	MW-23	12/29/2019	1.2
2019_12SIPMP	MW-24	12/29/2019	49
2019_12SIPMP	MW-25	12/29/2019	200
2019_12SIPMP	MW-26	12/29/2019	0.51 J
2019_12SIPMP	MW-27	12/29/2019	0.53 J
2019_12SIPMP	MW-28	12/29/2019	0.31 J
2019_12SIPMP	MW-29	12/28/2019	0.19 U
2019_12SIPMP	MW-3	12/29/2019	2300
2019_12SIPMP	MW-30	12/28/2019	0.19 U
2019_12SIPMP	MW-31	12/29/2019	1.1
2019_12SIPMP	MW-32	12/29/2019	220
2019_12SIPMP	MW-33	12/29/2019	100
2019_12SIPMP	MW-34	12/28/2019	0.19 U
2019_12SIPMP	MW-35	12/29/2019	1.1 J
2019_12SIPMP	MW-36	12/28/2019	16
2019_12SIPMP	MW-37		
2019_12SIPMP	MW-38	12/28/2019	51
2019_12SIPMP	MW-39		
2019_12SIPMP	MW-40	12/28/2019	140
2019_12SIPMP	MW-41		
2019_12SIPMP	MW-42	12/28/2019	1.4
2019_12SIPMP	MW-43	12/28/2019	0.19 U

Notes:

µg/L = micrograms per liter

i = Method reporting limit/method detection limit is elevated due to a chromatographic interference.

J = Result is an estimated concentration that is less than the method reporting limit, but greater than or equal to the method detection limit.

N = Analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.

NA = Sample bottles arrived at laboratory broken and could not be analyzed.

Table 3A. Summary of Groundwater Sampling Analytical Results: Second Half 2019

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Event	Well ID	Sample Date	Pentachlorophenol
			(µg/L)

ND = Not detected.

NJ = Analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

PAHs = polycyclic aromatic hydrocarbons.

B = This flag is used when the analyte is found in the associated method blank as well as in the sample. It indicates probable blank contamination.

R = Sample result was rejected because of serious deficiencies in meeting QC criteria.

U = Analyte was not detected above the reported sample quantification limit.

Table 3B. Analytical Results of Pentachlorophenol and Breakdown Products in Extraction Well Composite Samples

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Analyte[1]	Unit	3/27/2018[3]	6/16/2018[3]	9/30/2018[3]	11/18/2018[3]	3/17/2019[3]	6/2/2019[3]	9/14/2019[3]	12/28/2019[5]	
									EW-1	EW-4
Pentachlorophenol	µg/L	280	170	460	480	210	190	--	--	--
2,4,5-Trichlorophenol	µg/L	ND	ND	0.37 J	0.17 J	ND	ND	ND	ND	0.16
2,4,6-Trichlorophenol	µg/L	ND	ND	0.12 J	0.1 J	ND	ND	ND	ND	0.18
2,3,4,5-Tetrachlorophenol	µg/L	--	--	--	--	ND	ND	--	--	--
2,3,5,6-Tetrachlorophenol	µg/L	--	--	--	--	7.8	8.1 J	NC	ND	NC
3,4-Dichlorophenol	µg/L	--	--	--	--	--	--	--	--	--
3,5-Dichlorophenol	µg/L	--	--	--	--	--	--	--	--	--
Total Tetrachlorophenols[4]	µg/L	13	5.6	12	20	7.8	8.1 J	--	--	--

Notes:

-- = not analyzed.

µg/L = micrograms per liter.

J = Result is an estimated concentration that is less than the method reporting limit, but greater than or equal to the method detection limit.

ND = not detected.

NC = not calculated

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantification limit is approximate and may be inaccurate or imprecise.

[1] Analysis by EPA method 8151M.

[2] Sample composite from EW-2 and EW-4.

[3] Sample composite from EW-1, EW-2, and EW-4.

[4] Total tetrachlorophenols comprises multiple tetrachlorophenol isomers, including 2,3,4,6-tetrachlorophenol and 2,3,5,6-tetrachlorophenol.

[5] Values are from discrete samples for EW-1 and EW-4. These samples were errroneously not comopsited or analyzed for PCP during the fourth quarter 2019 sampling event.

Table 3C. Historical Analytical Results of Pentachlorophenol and Breakdown Products in Extraction Well Composite Samples

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Sample ID	Sample Date	2,4,5-Trichlorophenol (µg/L)	2,4,6-Trichlorophenol (µg/L)	2,3,4,5-Tetrachlorophenol (µg/L)	2,3,5,6-Tetrachlorophenol (µg/L)	Total Tetrachlorophenols[1] (µg/L)	3,4-Dichlorophenol (µg/L)	3,5-Dichlorophenol (µg/L)	Pentachlorophenol (µg/L)	Comments[2]
EWCOMP030509	3/5/2009	1.0 U	1.0 U	15.0	2.0				430	
EWCOMP040209	4/2/2009	1.0 U	1.0 U	15.0	2.5				180	
EWCOMP052609	5/26/2009	1.1 U	1.1 U	12.0	2.0				240	
EWCOMP070709	7/7/2009	1.0 U	1.0 U	9.1	1.2				190	
EW-1-EW-7	8/5/2009	0.98 U	0.98 U	8.9	1.3				240	PCP from Method 8270D
EWCOMP082709	8/27/2009	1.0 U	1.0 U	7.1	1.0				180	
EWCOMP093009	9/30/2009	1.0 U	1.0 U	9.4	1.4				230	EW 1- EW 6 only
EW-1-EW-6	11/19/2009	0.96 U	0.96 U	10.0	1.9				450	EW 1- EW 6 only; analysis by 8270D SIM
EWCOMP122809	12/28/2009	1.0 U	1.0 U	15.0	1.8				490	EW 1- EW 6 only; analysis by 8270D SIM
EWCOMP12610	1/26/2010	0.99 U	0.99 U	16.0	1.8				470	EW 1- EW 6 only; analysis by 8270D SIM
EW1-7	2/11/2010	1.1 U	1.1 U	8.9	1.2				270	Analysis by 8270D SIM
EWCOMP32410	3/24/2010	1.0 U	1.0 U	13.0	1.6				340	Analysis by 8270D SIM
EWCOMP42910	4/30/2010	1.1 U	1.1 U	11.0	1.4				320	Analysis by 8270D
EW1-7	5/27/2010	0.96 U	0.96 U	5.2	1.0				110	Analysis by 8270D
EWCOMP63010	6/30/2010	1.1 U	1.1 U	11.0	1.8				320	EW1-EW3 & EW5-EW7, Analysis by 8270D SIM
EW1-7	8/19/2010	0.95 U	0.95 U	13.0	2.0				300	Analysis by 8270D
EW1-6	12/7/2010	0.97 U	0.97 U	9.5	1.5				540	Analysis by 8270D
Extraction Well Composite	2/12/2011	0.96 U	0.96 U	32.0	10.0				560	EW 1- EW 6 only; Analysis by 8270D
EW1-4 Composite	5/18/2011	0.099 U	0.06 J			12 U	0.5 U	0.74 U	320	EW 1- EW 4 only; Analysis by 8151M
EW1-4	8/25/2011	0.099 U	0.13 J			28			710	EW 1- EW 4 only; Analysis by 8151M
EW1-4	11/3/2011	0.099 U	0.11 J			33 U			710	EW 1- EW 4 only; Analysis by 8151M
EW1-4	2/14/2012	0.099 U	0.11 J			19 Ui			650	EW 1- EW 4 only; Analysis by 8151M
EW1-4	5/3/2012	1.0 U	0.16 NJ			39 J			770	EW 1- EW 4 only; Analysis by 8151M
EW2-4 COMP	8/20/2012	1.0 U	0.5 U			26 U			550	EW 2- EW 4 only; Analysis by 8151M
EW 1-4 COMP	11/12/2012	1.0 U	0.50 U			27 U			690	EW 2- EW 4 only; Analysis by 8151M
EW 1-4 COMP	2/11/2013	1.0 U	0.50 U			39 U			820 J	EW 2- EW 4 only; Analysis by 8151M

Table 3C. Historical Analytical Results of Pentachlorophenol and Breakdown Products in Extraction Well Composite Samples

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Sample ID	Sample Date	2,4,5-Trichlorophenol (µg/L)	2,4,6-Trichlorophenol (µg/L)	2,3,4,5-Tetrachlorophenol (µg/L)	2,3,5,6-Tetrachlorophenol (µg/L)	Total Tetrachlorophenols[1] (µg/L)	3,4-Dichlorophenol (µg/L)	3,5-Dichlorophenol (µg/L)	Pentachlorophenol (µg/L)	Comments[2]
EW 1-4 COMP	6/4/2013	1.0 U	0.50 U			2.4 U			590	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	8/26/2013	0.19 U	0.14 U			18 J			530	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	12/2/2013	1.0 U	0.50 U			21			630	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	3/17/2014	1.0 U	0.50 U			15			340	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMP	6/2/2014	1.0 U	0.20 J			29			51	EW 4 only; Analysis by 8151M
EW 1-4 COMPOSITE	9/29/2014	0.24 J	0.50 U			31			790	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMPOSITE	11/17/2014	1.0 U	0.50 U			27			590	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMPOSITE	2/23/2015	1.0 UJ	0.50 U			23			590	EW 2 & EW 4 only; Analysis by 8151M
EW 1-4 COMPOSITE	9/15/2015	1.0 UJ	0.50 U			17			380	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	12/7/2015	1.0 UJ	0.50 UJ			19			430	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	2/29/2016	1.0 UJ	0.50 U			34			620	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	6/5/2016	1.0 U	0.50 U			30			550	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	9/25/2016	1.0 U	0.18 J			16			410	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	11/8/2016	1.0 U	0.54 J			1 U			12	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	3/8/2017	1.0 U	0.14 U			21			410	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	6/22/2017	1.0 U	0.14 U			17			350	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	9/29/2017	0.2 U	0.14 U			11			260	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	12/13/2017	1.0 U	0.50 U			15			500	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	3/27/2018	1.0 U	0.50 U			13			280	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	6/16/2018	1 U	0.50 U			5.6			170	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	9/30/2018	0.37 J	0.12 J			12			460	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW 1-4 COMPOSITE	11/18/2018	0.17 J	0.10 J			20			480	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW COMPOSITE	3/1/2019	0.16 U	0.042 U	0.042 U	7.8	7.8			210	EW-1, EW-2 & EW-4 only; Analysis by 8151M
EW COMPOSITE	6/2/2019	3.2 U	0.84 U	0.84 U	8.1 J	8.1 J			190	EW-1 & EW-4 only; Analysis by 8151M
EW COMPOSITE	9/14/2019	0.45 U	0.67 U		NC	7.2				EW-1, EW-2 & EW-4 only; Analysis by 8270D
EW -1	12/28/2019	0.38 U	0.57 U		0.38 U	2.88				Sample not composited; Analysis by 8270D
EW-4	12/28/2019	0.16 J	0.18 J		NC	26				Sample not composited; Analysis by 8270D

Table 3C. Historical Analytical Results of Pentachlorophenol and Breakdown Products in Extraction Well Composite Samples

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,3,4,5-Tetrachlorophenol	2,3,5,6-Tetrachlorophenol	Total Tetrachlorophenols[1]	3,4-Dichlorophenol	3,5-Dichlorophenol	Pentachlorophenol	Comments[2]
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	

µg/L = micrograms per liter.

i = Method reporting limit/method detection limit is elevated because of a chromatographic interference.

J = Result is an estimated concentration that is less than the method reporting limit, but greater than or equal to the method detection limit.

NJ = Analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.

U =Analyte was not detected above the reported sample quantification limit.

UJ = The analyte was not detected above the reported sample quantification limit. However, the reported quantification limit is approximate and may be inaccurate or imprecise.

NC = Not calculated

[1] Total tetrachlorophenols comprise of multiple tetrachlorophenol isomers, including 2,3,4,6-tetrachlorophenol and 2,3,5,6-tetrachlorophenol.

[2] EW-1, EW-5, and EW-6 were shut down because of a recurring high water level condition in the infiltration trench. EW-7 was discontinued with approval from the EPA in 2010.

EW-3 was shut down during the second quarter of 2013 and was off during sample collection.

Table 4. Light Nonaqueous-Phase Liquid (LNAPL) Recovery

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Date	Well ID	Weight (pounds)			Volume (gallons)
		Total	Material	LNAPL	
4/7/2008	MW-12	2.24	0.53	1.71	0.20
6/2/2008	MW-12	2.34	0.53	1.81	0.22
7/28/2008	MW-12	2.14	0.54	1.60	0.19
9/26/2008	MW-12	1.9	0.46	1.44	0.17
11/24/2008	MW-12	2.22	0.54	1.68	0.20
1/7/2009	MW-13	2.12	0.56	1.56	0.19
3/5/2009	MW-12	2.35	0.64	1.71	0.20
4/1/2009	MW-12	2.58	0.64	1.94	0.23
5/27/2009	MW-12	2.76	0.68	2.08	0.25
11/19/2009	MW-12	NA	NA	1.82	NA
12/28/2009	MW-12	2.64	0.66	1.98	0.24
1/25/2010	MW-12	2.48	0.64	1.84	0.22
3/23/2010	MW-12	2.6	0.66	1.94	0.23
4/28/2010	MW-12	2.68	0.64	2.04	0.24
6/29/2010	MW-12	2.52	0.64	1.88	0.22
10/19/2010	MW-13	1.49	0.64	0.85	0.10
10/19/2010	MW-12	1.8	0.64	1.16	0.14
2/10/2011	MW-12	2.19	0.56	1.63	0.19
5/18/2011	MW-12	2.56	0.64	1.92	0.23
5/18/2011	MW-13	1.9	0.45	1.45	0.17
5/18/2011	MW-19	1.8	0.63	1.17	0.14
5/18/2011	MW-21	1.59	0.58	1.01	0.12
8/24/2011	MW-12	2.07	0.63	1.44	0.17
11/3/2011	MW-12	2.27	0.61	1.66	0.20
2/15/2012	MW-12	1.89	0.64	1.25	0.15
5/2/2012	MW-12	2.45	0.64	1.81	0.22
8/20/2012	MW-12	1.08	0.47	0.61	0.07
11/13/2012	MW-12	NC	NC	0	0.00
2/12/2013	MW-12	2.38	0.41	1.97	0.23
6/3/2013	MW-12	1.91	0.58	1.33	0.16
8/26/2013	MW-12	0.93	0.2	0.73	0.09
12/3/2013	MW-12	0.98	0.33	0.65	0.08
3/17/2014	MW-12	2.14	0.32	1.8	0.21
6/2/2014	MW-12	2.13	0.3	1.83	0.22
9/29/2014	MW-12	1.16	0.32	0.84	0.10
11/17/2014	MW-12	1.71	0.31	1.41	0.17
2/23/2015	MW-12	2.1	0.31	1.79	0.21
9/15/2015	MW-12	2.15	0.33	1.82	0.22
12/7/2015	MW-12	2.14	0.31	1.83	0.22
2/29/2016	MW-12	2.58	0.3	2.28	0.27

Table 4. Light Nonaqueous-Phase Liquid (LNAPL) Recovery

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Date	Well ID	Weight (pounds)			Volume (gallons)
		Total	Material	LNAPL	
6/5/2016	MW-12	3.06	0.44	2.62	0.31
9/25/2016	MW-12	2.61	0.26	2.35	0.28
11/8/2016	MW-12	2.44	0.31	2.13	0.25
3/8/2017	MW-12	1.39	0.31	1.08	0.13
6/10/2017	MW-13	1.42	0.31	1.11	0.13
6/10/2017	MW-12	2.41	0.31	2.10	0.25
9/16/2017	MW-12	0.99	0.31	0.68	0.08
12/13/2017	MW-12	0.91	0.33	0.58	0.07
12/13/2017	MW-13	0.86	0.29	0.58	0.07
11/18/2018	MW-12	3.96	0.31	3.65	0.43
11/18/2018	MW-13	4.08	0.31	3.77	0.45
3/17/2019	MW-12	7.11	0.20	6.91	0.82
3/17/2019	MW-13	6.98	0.20	6.78	0.81
6/2/2019	MW-12	7.16	0.19	6.97	0.83
6/2/2019	MW-13	7.11	0.19	6.92	0.82
9/14/2019	MW-12	7.13	0.19	6.94	0.83
9/14/2019	MW-13	7.03	0.19	6.84	0.81
12/29/2019	MW-12	NA	NA	NA	NA
12/29/2019	MW-13	NA	NA	NA	NA
Total				124.3	12.82

Notes:

LNAPL = light non-aqueous phase liquid

NA = not analyzed.

NC = no change, water level low.

Figures

LEGEND

- Cities
- Railroads
- Major Roads
- Watercourses

MAP NOTES:
Date: July 25, 2016
Data Sources: Air photo taken on September 28, 2015 by the USDA

FIGURE 1

Site Vicinity Map

Former J.H. Baxter Wood Treating Facility
Arlington, Washington

N

0 0.5 1
Miles

GSI Water Solutions, Inc.

Document Path: P:\Portland\302 - Baxter\GIS\Arlington_RCRA\Project_mxds\2016_1H_SA_Report\Figure1_Site_Vicinity_Map.mxd

FIGURE 2

Groundwater Monitoring Network

Former J.H. Baxter
Wood Treating Facility
Arlington, Washington

LEGEND

- Monitoring Well
- Recovery Well
- Extraction Well
- Infiltration Trench
- Property Boundary

N

0 150 300 450
Feet

Date: February 19, 2019
Data Sources: AMEC, ESRI, Air photo taken 2015 by NAIP

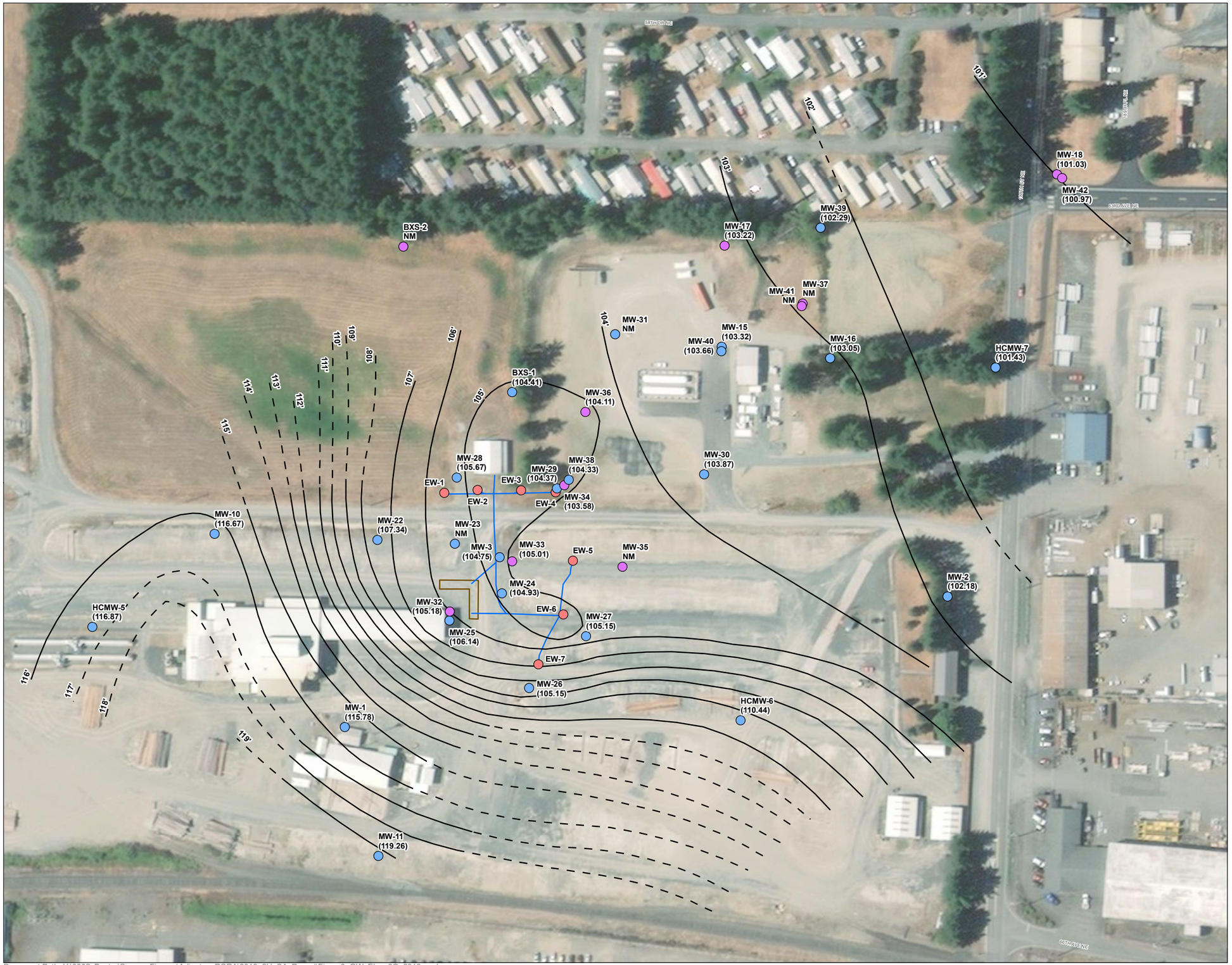
GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Arlington_RCRA\2018_2H_SA_Report\Figure2_GW_Monitoring_Network.mxd

FIGURE 3

Groundwater Elevation Contour Map: Third Quarter 2019

Former J.H. Baxter
Wood Treating Facility
Arlington, Washington



LEGEND

- Groundwater Elevation Contour (dashed where inferred)
- Shallow Monitoring Well (Sept 2019 Groundwater Elevation)
- Intermediate Monitoring Well (Sept 2019 Groundwater Elevation)
- Extraction Well
- Infiltration Trench
- Infiltration Gallery Piping

NOTES:

NM = Not Measured
1. All elevations exist in NAVD88.
2. Extraction wells are pumping while water level measurements are collected.
3. Intermediate wells not used for contouring.
4. MW-26 and MW-34 not used for contouring.

N

0 65 130 195
Feet

Date: January 28, 2020
Data Sources: AMEC, ESRI, Air photo taken 2015 by NAIP

GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Arlington_RCRA\2019_2H_SA_Report\Figure3_GW_Elev_3Q_2019.mxd

FIGURE 4

Groundwater Elevation Contour Map: Fourth Quarter 2019

Former J.H. Baxter
Wood Treating Facility
Arlington, Washington

LEGEND

- Groundwater Elevation Contour (dashed where inferred)
- Shallow Monitoring Well (Dec 2019 Groundwater Elevation)
- Intermediate Monitoring Well (Dec 2019 Groundwater Elevation)
- Extraction Well
- Infiltration Trench
- Infiltration Gallery Piping

NOTES:

NM = Not Measured

1. All elevations exist in NAVD88.
2. Extraction wells are pumping while water level measurements are collected.
3. Intermediate wells not used for contouring.
4. MW-25 not used for contouring.

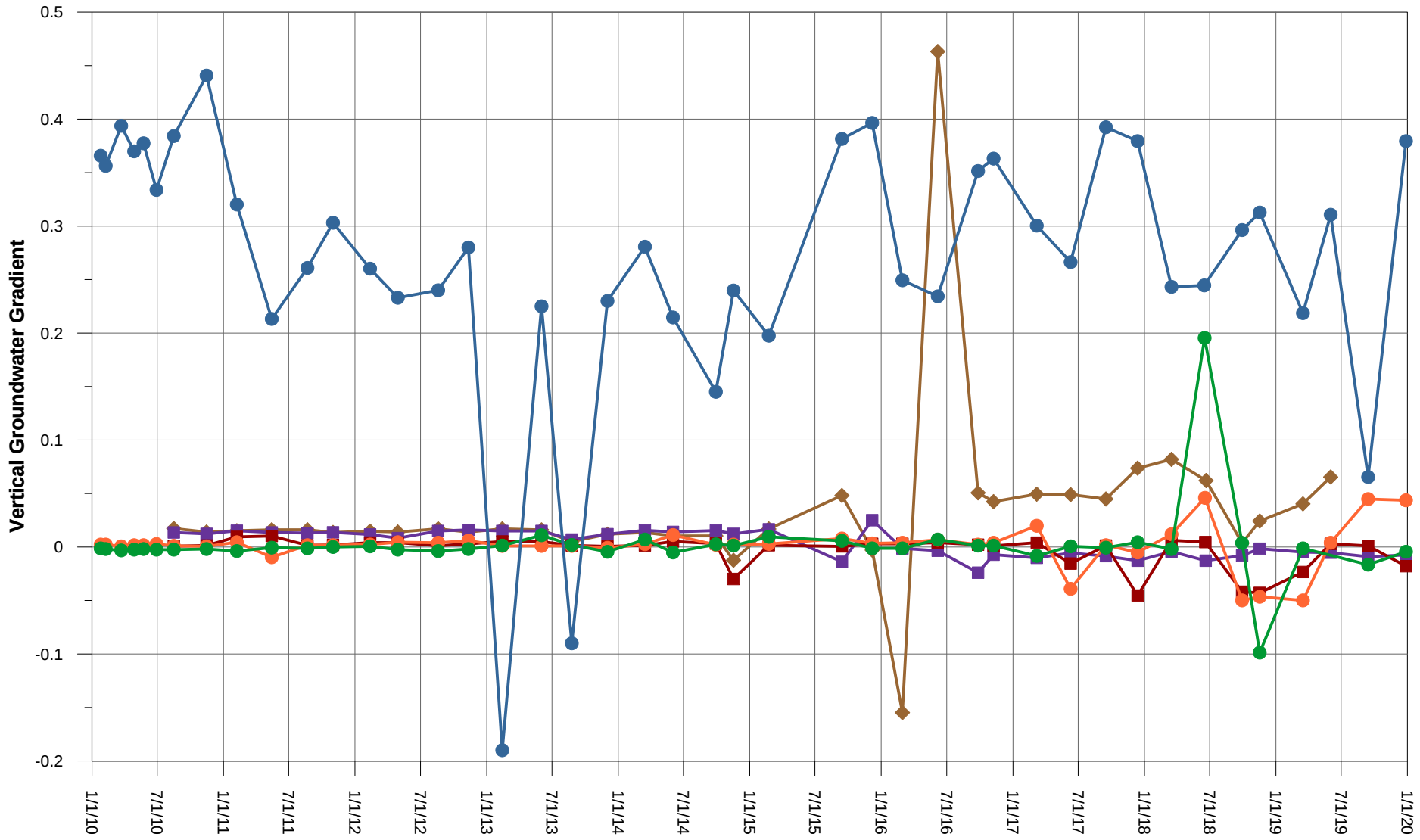
N

0 65 130 195
Feet

Date: January 28, 2020
Data Sources: AMEC, ESRI, Air photo taken 2015 by NAIP

GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Arlington_RCRA\2019_2H_SA_Report\Figure4_GW_Elev_4Q_2019.mxd



Legend:

- MW-25/MW-32, Shallow to Intermediate Zone
- MW-3/MW-33, Shallow to Intermediate Zone
- MW-29/MW-34, Shallow to Intermediate Zone
- MW-29/MW-38, Shallow to Deep Zone
- MW-15/MW-40, Shallow to Deep Zone
- MW-37/MW-41, Intermediate to Deep Zone

Notes:

Vertical groundwater gradients are dimensionless.
Positive values indicate a downward flow direction, while negative values indicate an upward flow direction.
In the vicinity of MW-25 and MW-32, a silt layer is approximately 20' below ground surface, and could account for larger vertical gradient.
1Q 2013 and 3Q 2013, the MW-25/MW-32 vertical gradient shifted from a downward gradient to upward gradient. The associated O&M reports cited numerous high level alarm errors during the 1Q 2013 period that shut the extraction system down, and possible human error as reasons for the change.
Suspect measurement at MW-37 in 2Q 2016.
Suspect measurement at MW-3/MW-33 in 2Q 2018.
No measurements taken in 3Q & 4Q im 2019 at MW-37 and MW-41

FIGURE 5

Vertical Groundwater Gradient Trends

Former J.H. Baxter Wood Treating Facility

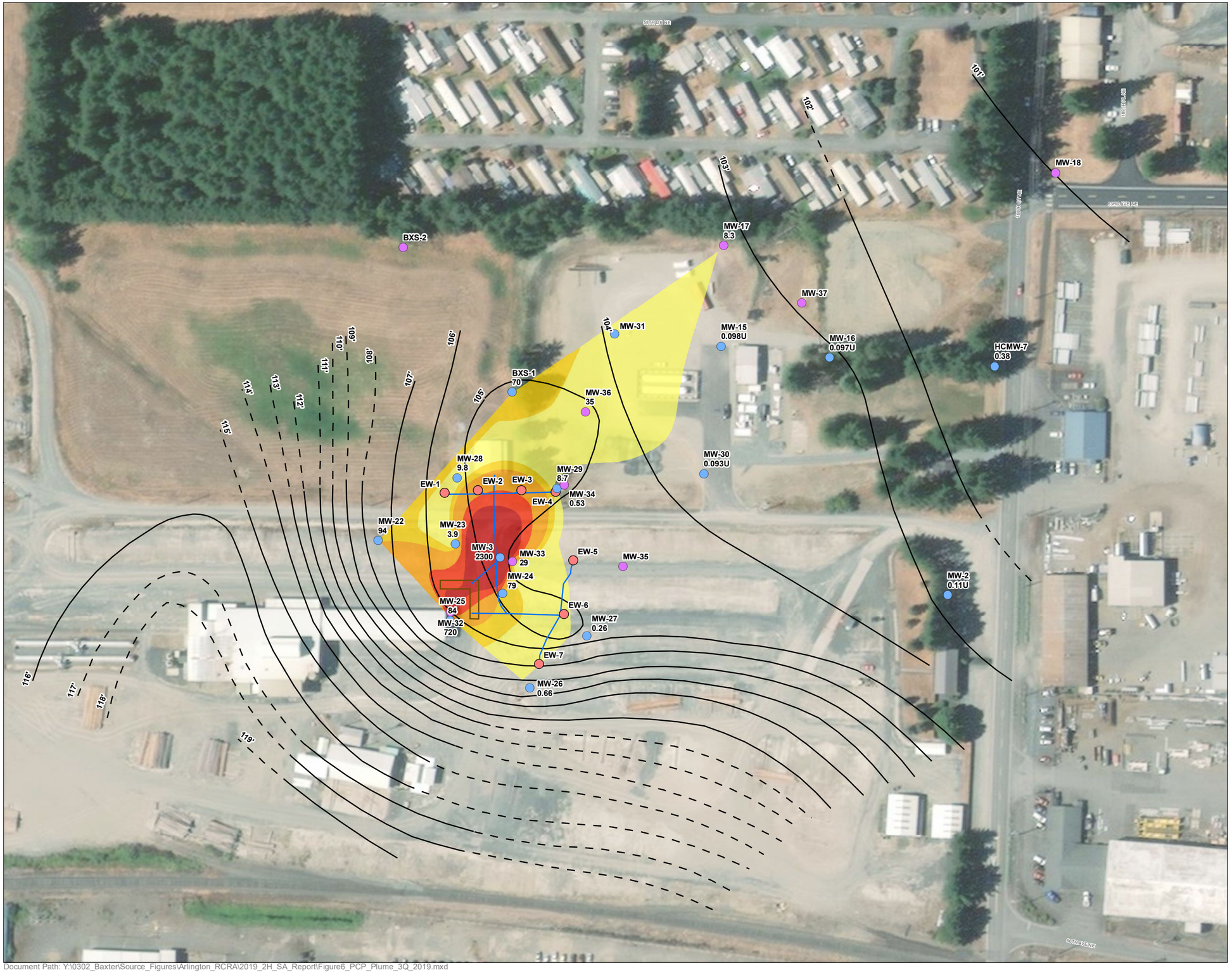
Arlington, Washington

GSI Water Solutions, Inc.

FIGURE 6

Pentachlorophenol Isopleth Map: Third Quarter 2019

Former J.H. Baxter
Wood Treating Facility
Arlington, Washington



LEGEND

- Shallow Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)
- Intermediate Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)

PCP Concentrations (µg/L)

- >500
- 300-500
- 100-300
- 50-100
- 10-50

All Other Features

- Extraction Well
- Infiltration Gallery Piping
- Infiltration Trench
- Groundwater Elevation Contours (dashed where inferred)

NOTES:

1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:
   NA Not Analyzed
   NM Not Measured

N

0 65 130 195
Feet

Date: January 28, 2020
Data Sources: AMEC, ESRI, Digiglobe 2017

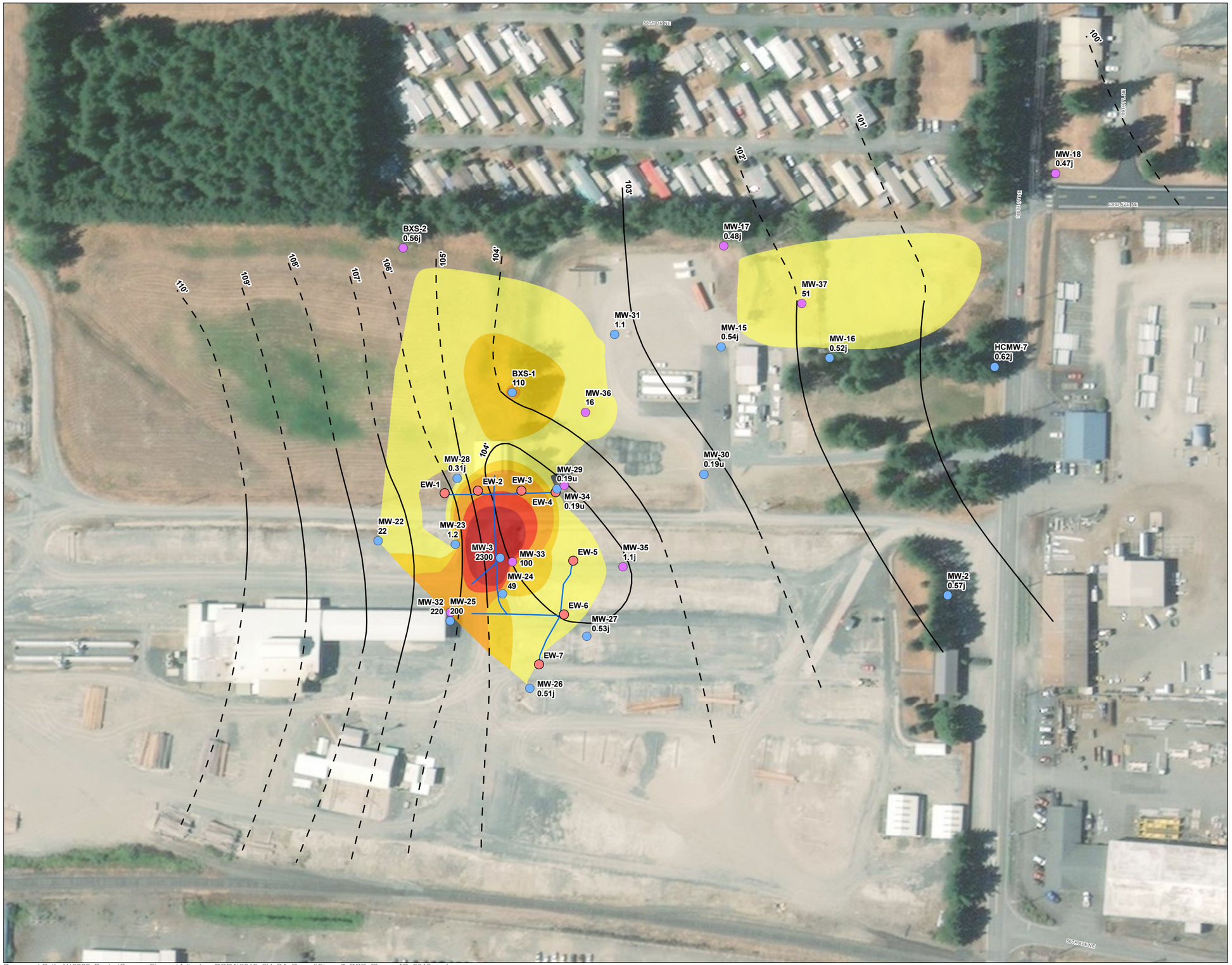
GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Arlington_RCRA\2019_2H_SA_Report\Figure6_PCP_Plume_3Q_2019.mxd

FIGURE 7

Pentachlorophenol Isopleth Map: Fourth Quarter 2019

Former J.H. Baxter
Wood Treating Facility
Arlington, Washington



LEGEND

- Shallow Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)
- Intermediate Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)

PCP Concentrations (µg/L)

- >500
- 300-500
- 100-300
- 50-100
- 10-50

All Other Features

- Extraction Well
- Infiltration Gallery Piping
- Infiltration Trench
- Groundwater Elevation Contours (dashed where inferred)

NOTES:

1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:
   NA Not Analyzed
   NM Not Measured

N

0 65 130 195
Feet

Date: January 28, 2020
Data Sources: AMEC, ESRI, Digiglobe 2017

GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Arlington_RCRA\2019_2H_SA_Report\Figure7_PCP_Plume_4Q_2019.mxd

FIGURE 8

Pentachlorophenol Isopleth Map, Deep Zone: Third Quarter 2019

Former J.H. Baxter
Wood Treating Facility
Arlington, Washington

LEGEND

- Deep Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)

PCP Concentrations (µg/L)

- >500
- 300-500
- 100-300
- 50-100
- 10-50

All Other Features

- Extraction Well
- Infiltration Gallery Piping
- Infiltration Trench

NOTES:

1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:
   NA Not Analyzed

N

0 65 130 195
Feet

Date: January 28, 2020
Data Sources: AMEC, ESRI, Digiglobe 2017

GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Arlington_RCRA\2019_2H_SA_Report\Figure8_PCP_Plume_3Q_2019_Deep.mxd

FIGURE 9

Pentachlorophenol Isopleth Map, Deep Zone: Fourth Quarter 2019

Former J.H. Baxter
Wood Treating Facility
Arlington, Washington

LEGEND

- Deep Monitoring Well and Pentachlorophenol (PCP) Concentration (µg/L)

PCP Concentrations (µg/L)

- >500
- 300-500
- 100-300
- 50-100
- 10-50

All Other Features

- Extraction Well
- Infiltration Gallery Piping
- Infiltration Trench

NOTES:

1. Results in µg/L.
2. All elevations exist in the North American Vertical Datum of 1988.
3. Abbreviations:
   NA Not Analyzed

N

0 65 130 195
Feet

Date: February 6, 2020
Data Sources: AMEC, ESRI, Digiglobe 2017

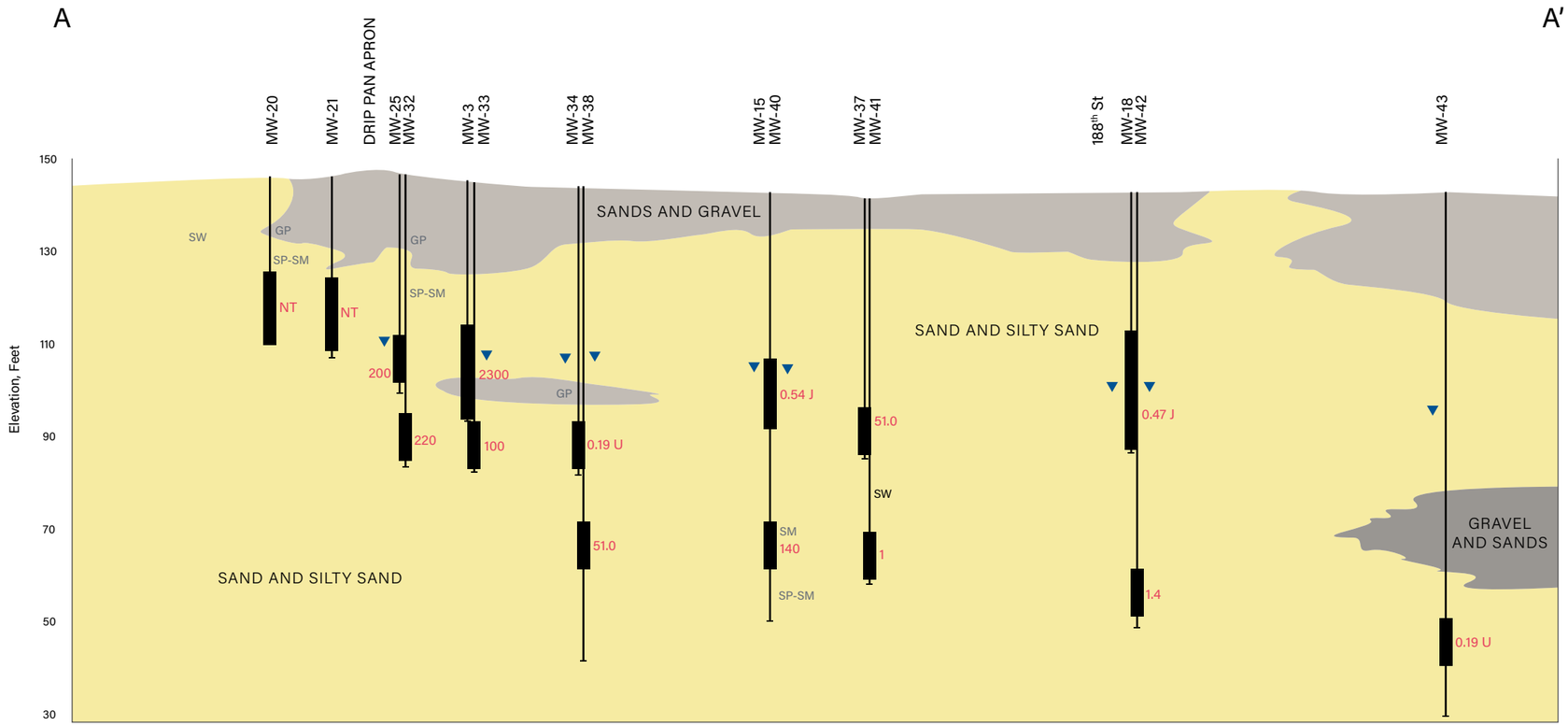
GSI Water Solutions, Inc.

Document Path: Y:\0302_Baxter\Source_Figures\Arlington_RCRA\2019_2H_SA_Report\Figure9_PCP_Plume_4Q_2019_Deep.mxd

FIGURE 10

Cross Section A-A'
Pentachlorophenol in Groundwater
Fourth Quarter 2019

Former J.H. Baxter
Wood Treating Facility
Arlington, Washington

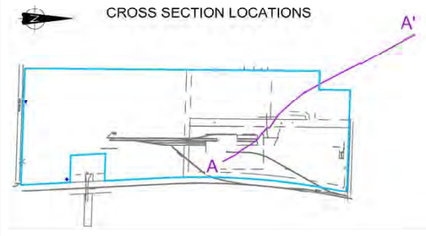


LEGEND

- 340 — Pentachlorophenol (PCP) Concentration in ug/L
- Approximate Water Level in December 2019
- Monitoring Well Cluster, Identifier, and Screen Interval
- Sands and Gravel
- Gravel and Sands
- Sand and Silty Sand

NOTES:

GP:	Poorly Graded Gravel
ND:	Not Detected
NT:	Not Tested
SM:	Silty Sand
SP-SM:	Poorly Graded Sand with Silt
SW:	Well Graded Sand



N

0 112.5 225 337.5
Feet

MAP NOTES:

Data Sources: Amec, Figure 39, January 27, 2020

GSI Water Solutions, Inc.

Y:\0302_Baxter\Source_Figures\Arlington_RCRA\2019_1H_SA_Report

Appendix A

FIGURE A-1

Cross Section Location Map

Former J.H. Baxter Wood Treating Facility
Arlington, Washington

LEGEND

- Cross Section Lines
- Monitoring Well
- Recovery Well
- Extraction Well
- Infiltration Trench

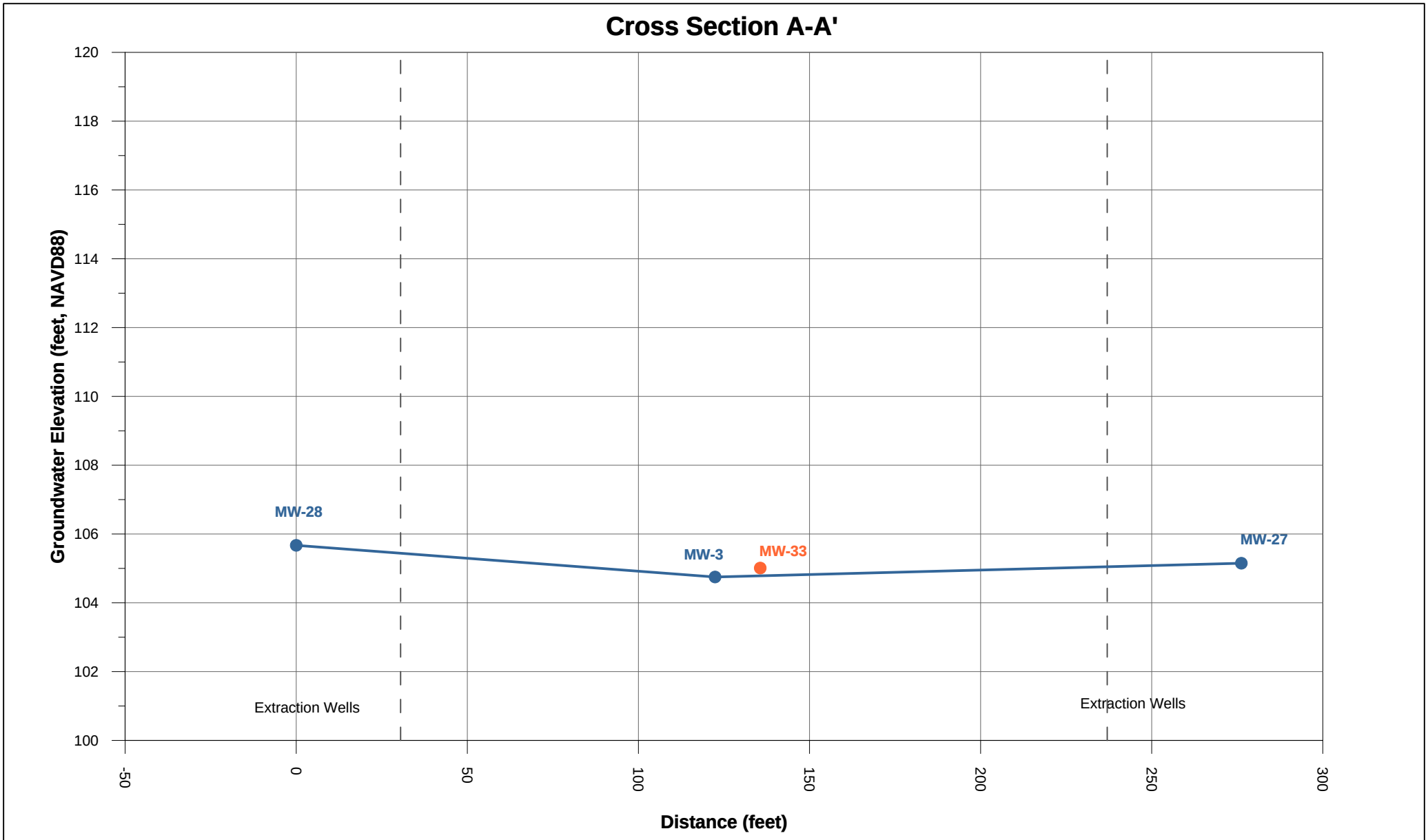
N

0 150 300 450
Feet

MAP NOTES:
Date: March 12, 2015
Data Sources: AMEC, ESRI, Air photo taken on July 9, 2010 by Microsoft

GSI Water Solutions, Inc.

Document Path: P:\Portland\302 - Baxter\GIS\Arlington_RCRA\Project_mxds\2014_Q4_Report\FigureA-1_Cross_Section_Location_Map.mxd

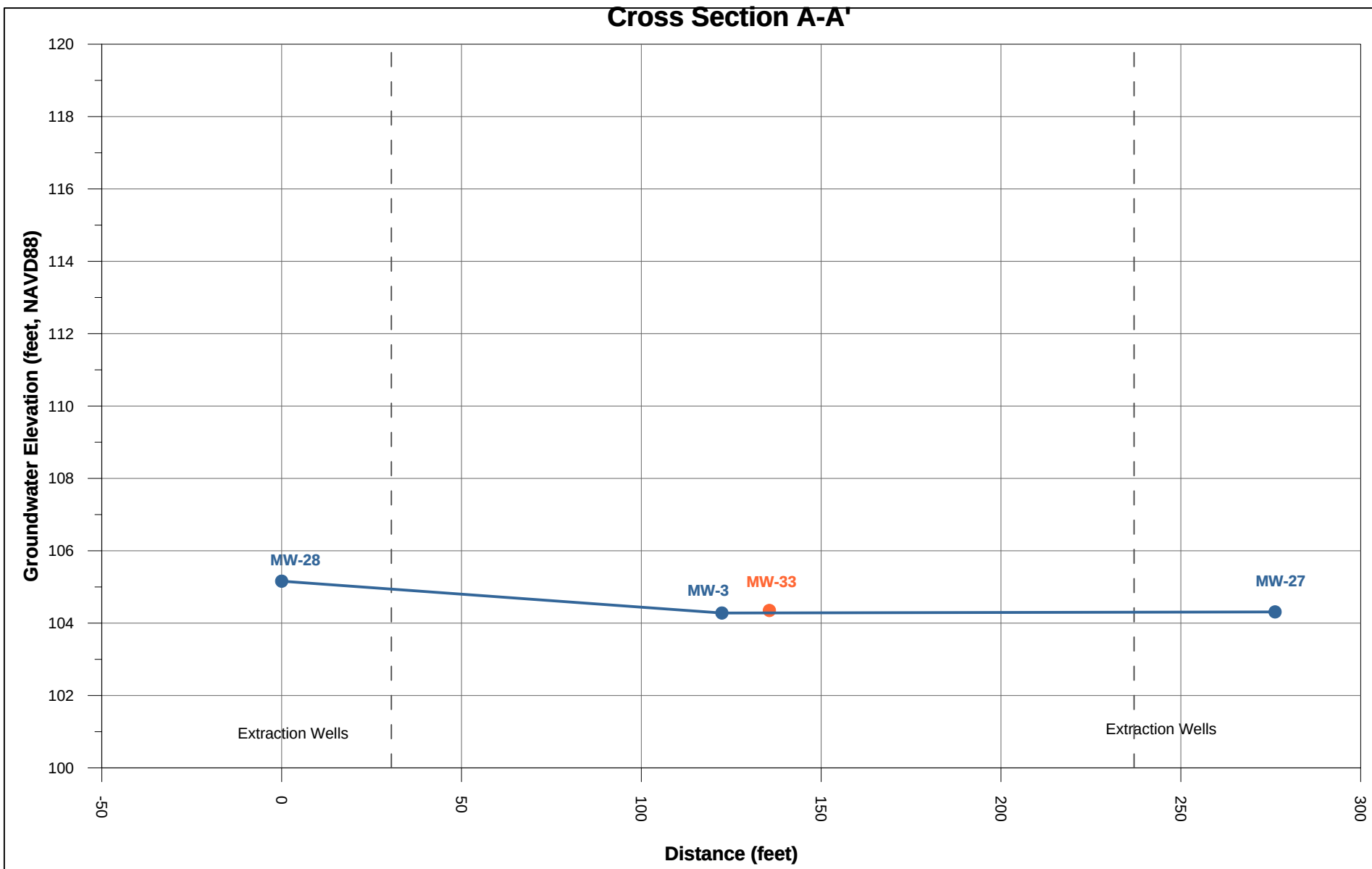


Legend:

- Shallow Well Groundwater Elevation
- Intermediate Well Groundwater Elevation

FIGURE A-2
Third Quarter 2019 Groundwater Elevation
Cross Section A-A'
Former J.H. Baxter Wood Treating Facility
Arlington, Washington

GSI Water Solutions, Inc.

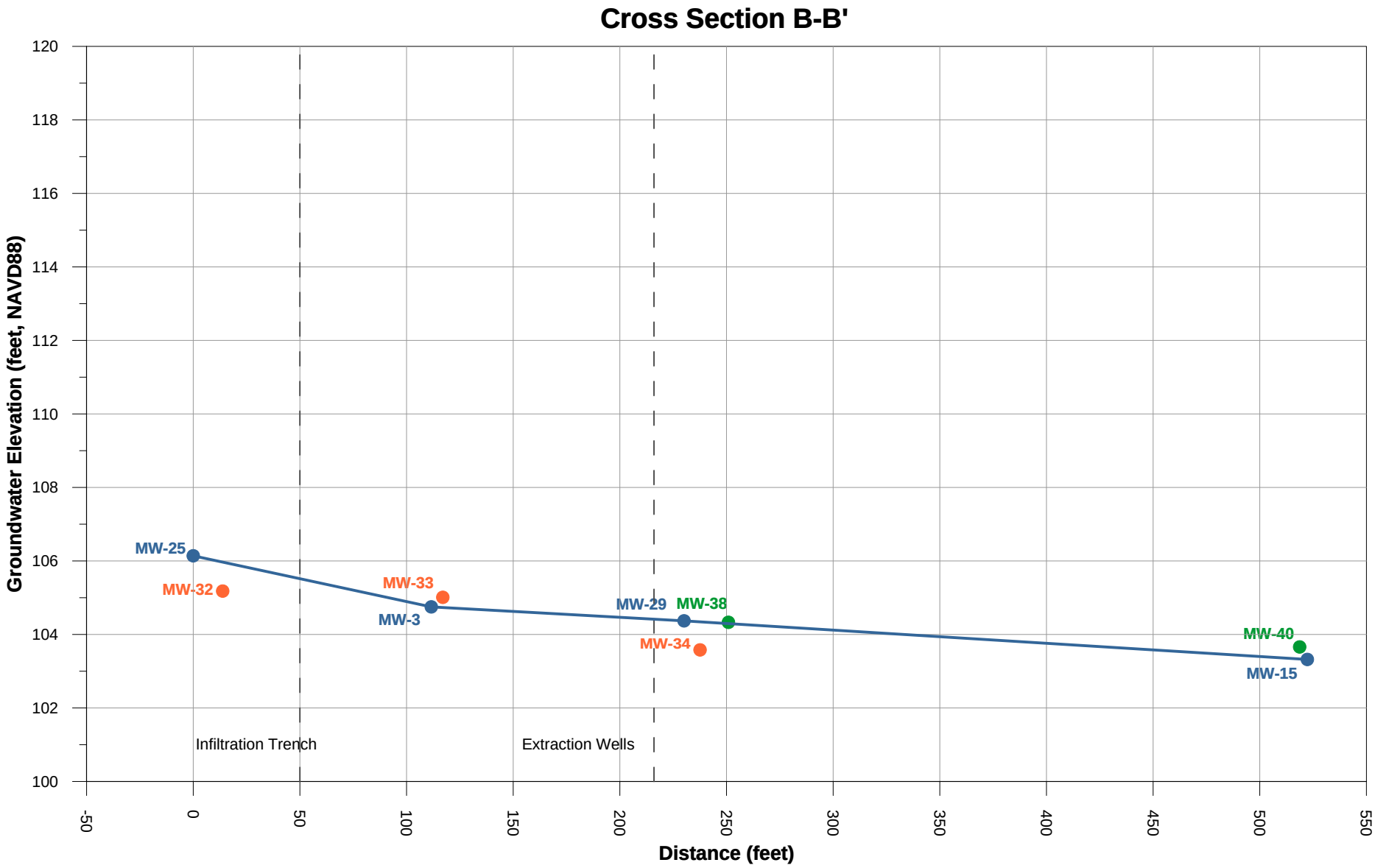


Legend:

- Shallow Well Groundwater Elevation
- Intermediate Well Groundwater Elevation

FIGURE A-3
Fourth Quarter 2019 Groundwater Elevation
Cross Section A-A'
Former J.H. Baxter Wood Treating Facility
Arlington, Washington

GSI Water Solutions, Inc.



Legend:

- Shallow Well Groundwater Elevation
- Intermediate Well Groundwater Elevation
- Deep Well Groundwater Elevation

Notes:

In vicinity of MW-25 and MW-32, a silt layer is approximately 20' below ground surface; could account for larger differences in groundwater elevation in well pair.

FIGURE A-4

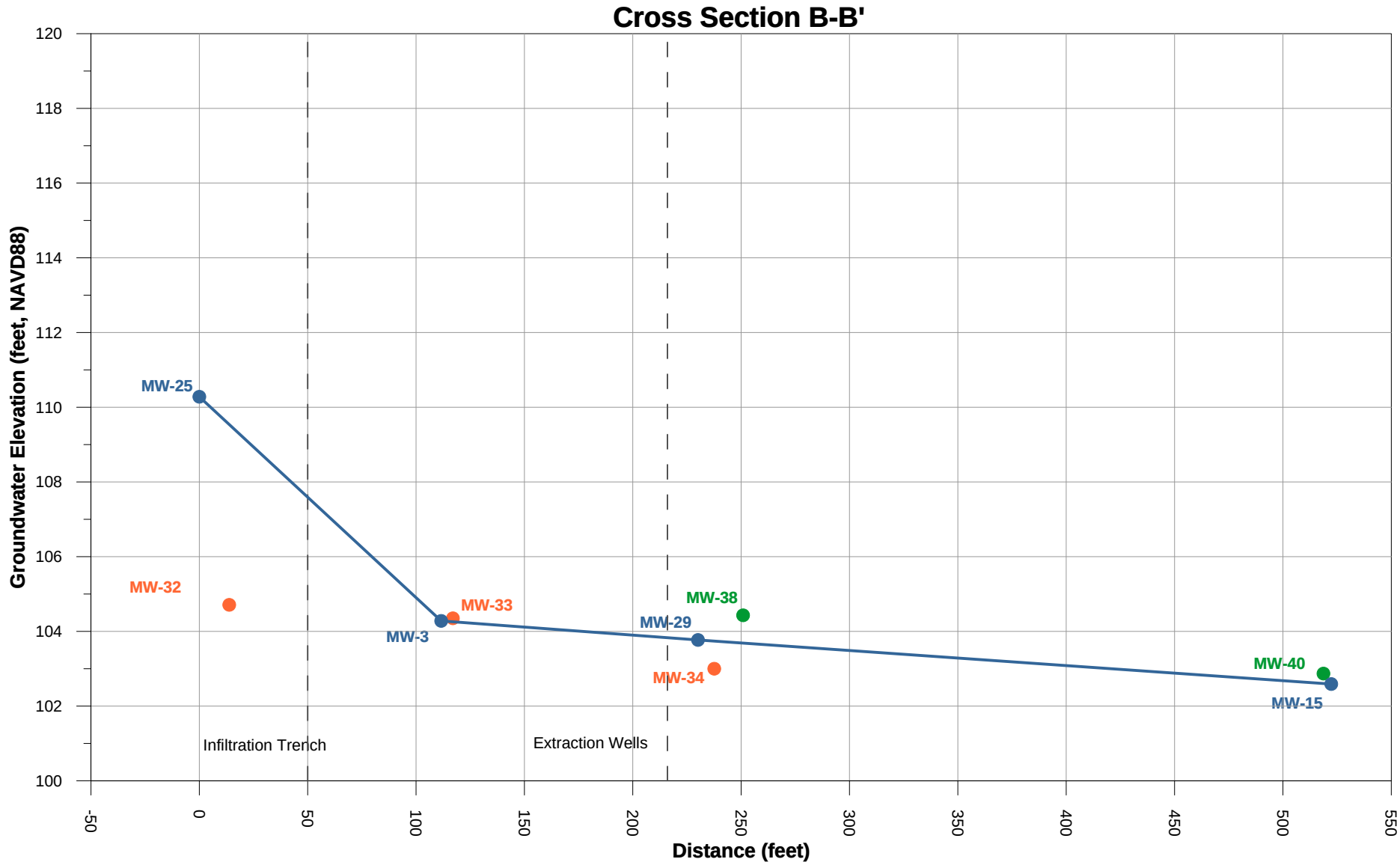
Third Quarter 2019 Groundwater Elevation

Cross Section B-B'

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

GSI Water Solutions, Inc.



Legend:

- Shallow Well Groundwater Elevation
- Intermediate Well Groundwater Elevation
- Deep Well Groundwater Elevation

Notes:

In vicinity of MW-25 and MW-32, a silt layer is approximately 20' below ground surface; could account for larger differences in groundwater elevation in well pair.

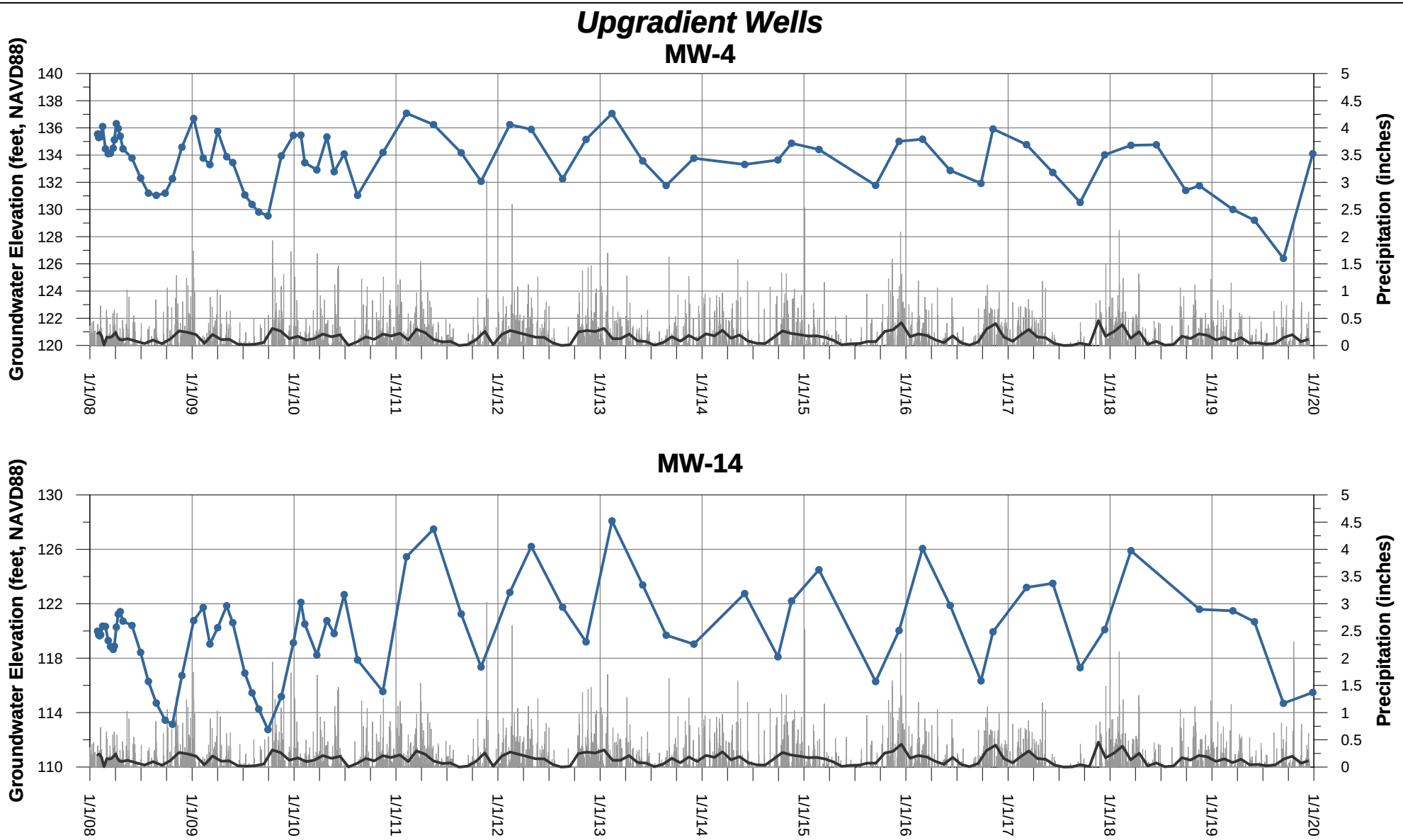
FIGURE A-5

Fourth Quarter 2019 Groundwater Elevation Cross Section B-B'

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

GSI Water Solutions, Inc.



Legend:

- Daily Precipitation
- Average Monthly Precipitation

FIGURE A-6

MW-4 and MW-14 Hydrographs with Precipitation

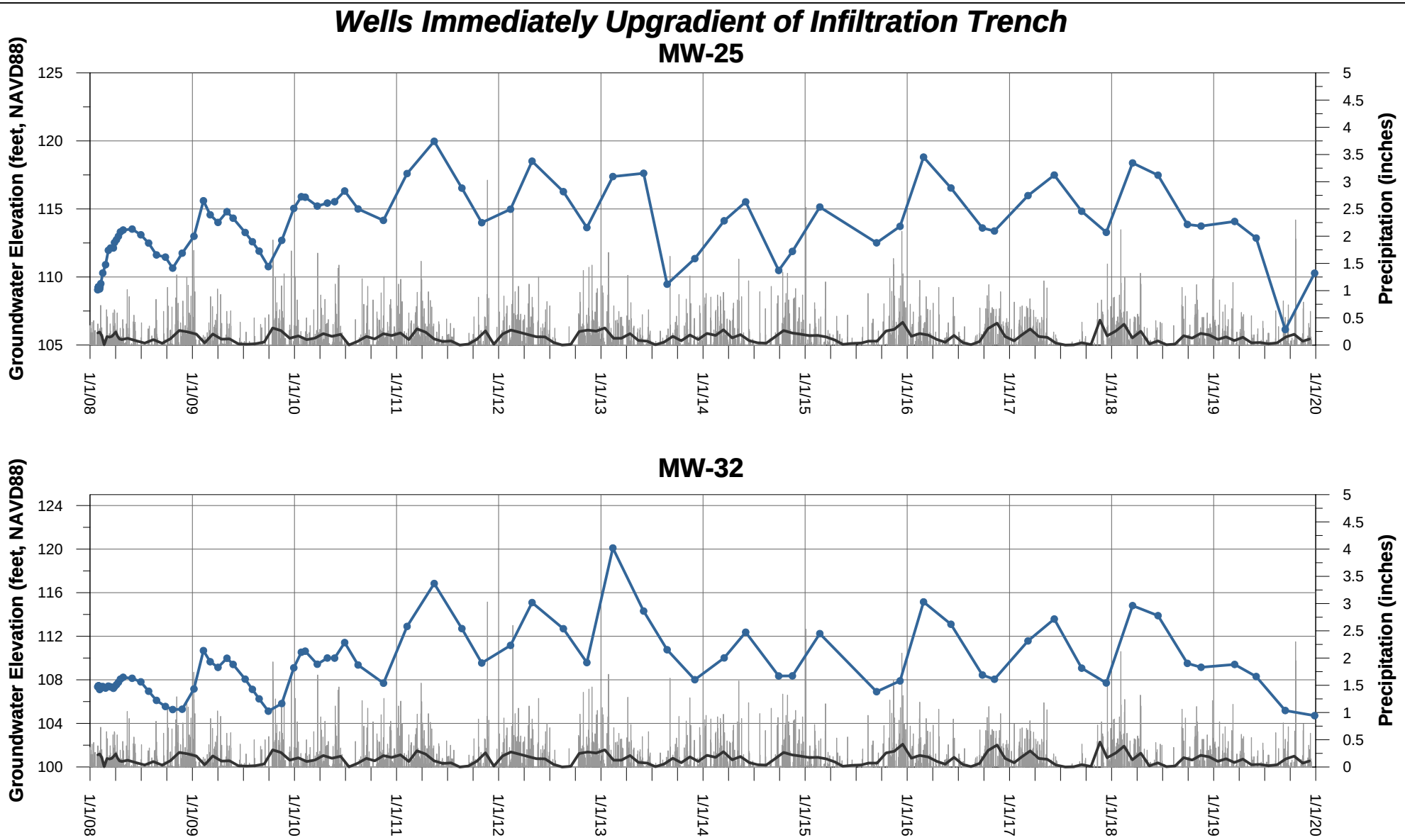
Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Notes:

Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.
Precipitation includes rain and/or snow melt.

GSI Water Solutions, Inc.



Legend:

- Groundwater Elevation
- Daily Precipitation
- Average Monthly Precipitation

FIGURE A-7

MW-25 and MW-32 Hydrographs with Precipitation

Former J.H. Baxter Wood Treating Facility

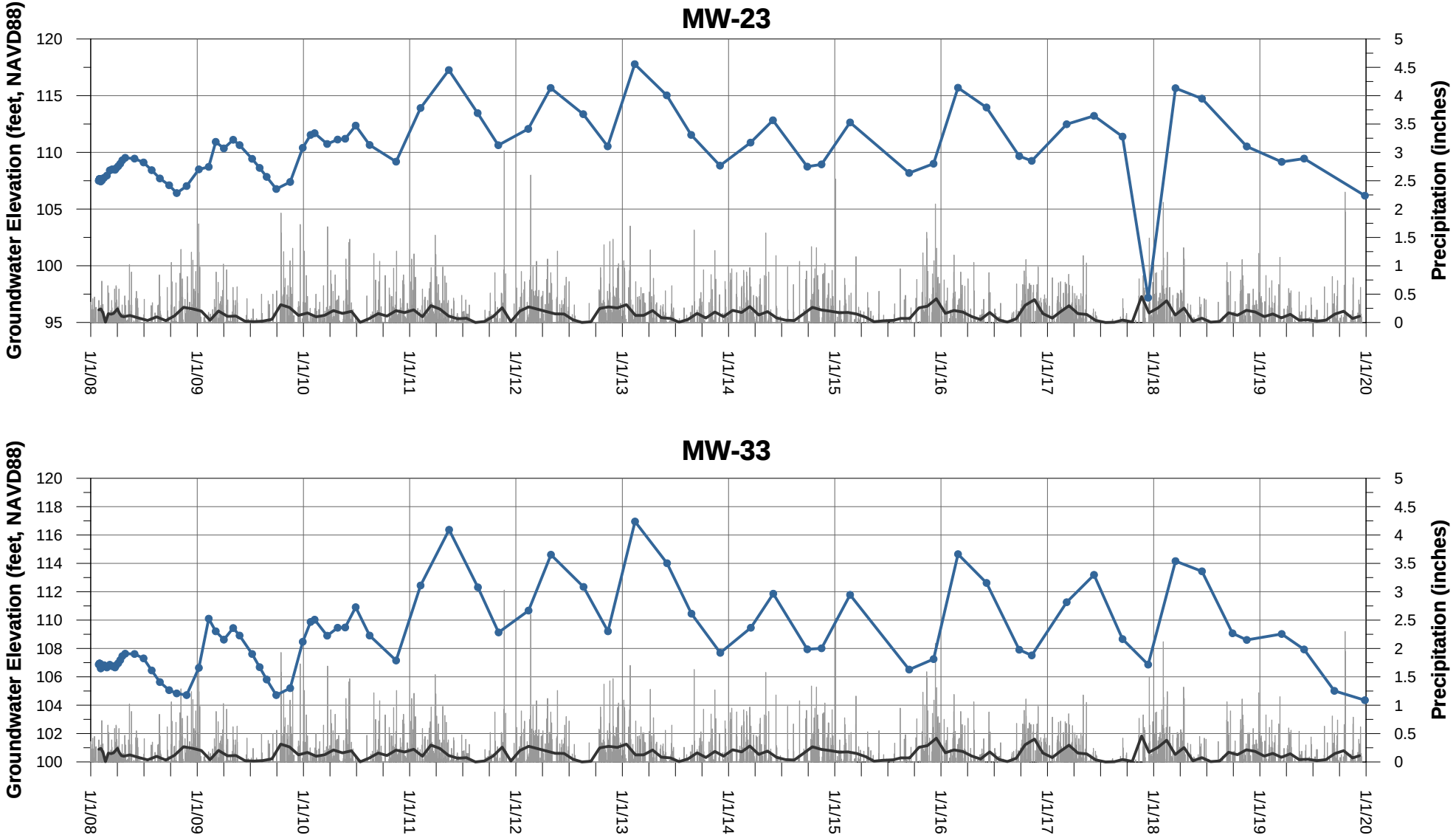
Arlington, Washington

Notes:

Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.
Precipitation includes rain and/or snow melt.

GSI Water Solutions, Inc.

Wells Between Infiltration Trench and Extraction Wells



Legend:

- Groundwater Elevation
- Daily Precipitation
- Average Monthly Precipitation

FIGURE A-8

MW-23 and MW-33 Hydrographs with Precipitation

Former J.H. Baxter Wood Treating Facility

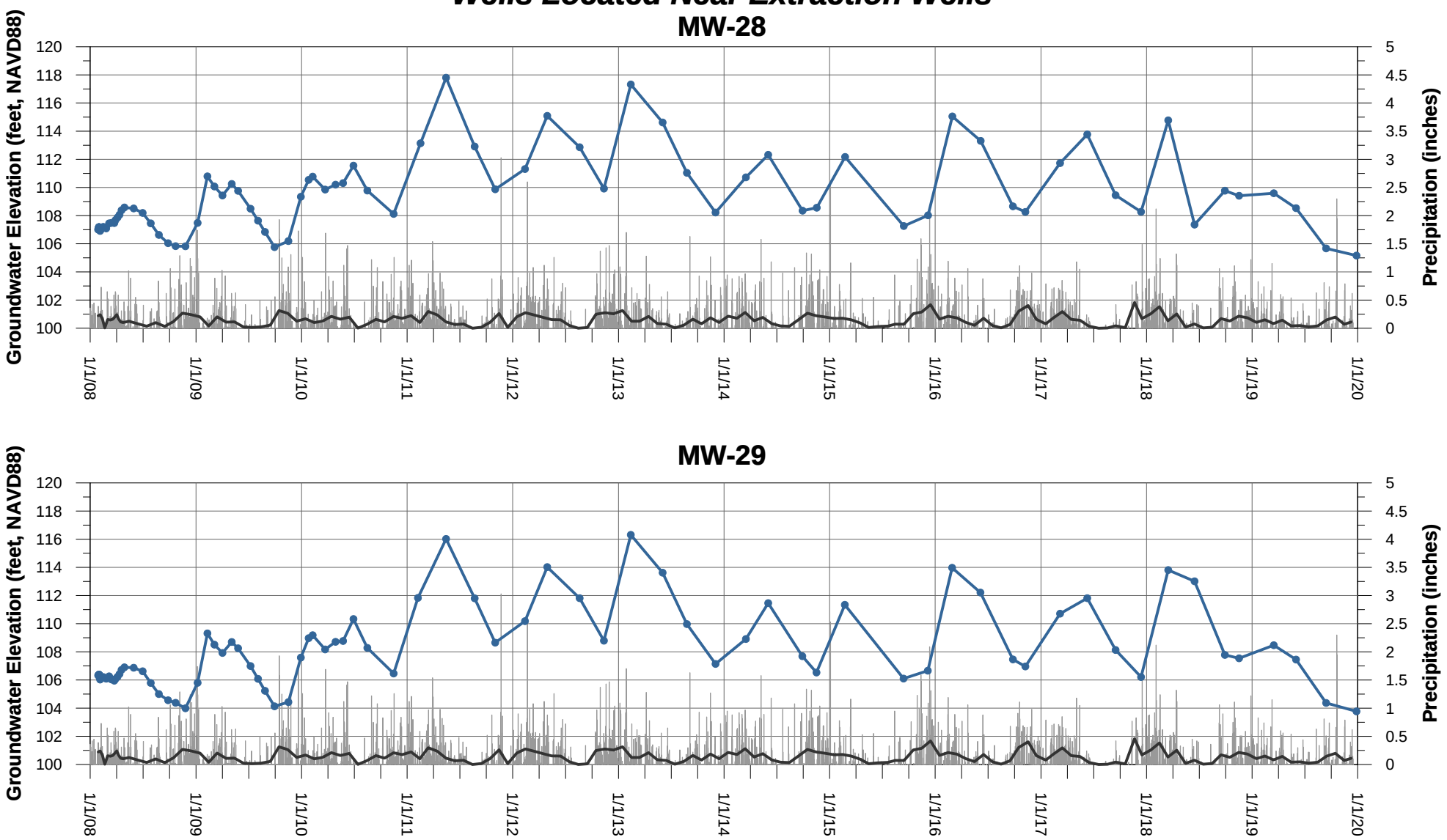
Arlington, Washington

Notes:

Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.
Precipitation includes rain and/or snow melt.

GSI Water Solutions, Inc.

Wells Located Near Extraction Wells



Legend:

- Groundwater Elevation
- Daily Precipitation
- Average Monthly Precipitation

FIGURE A-9

MW-28 and MW-29 Hydrographs with Precipitation

Former J.H. Baxter Wood Treating Facility

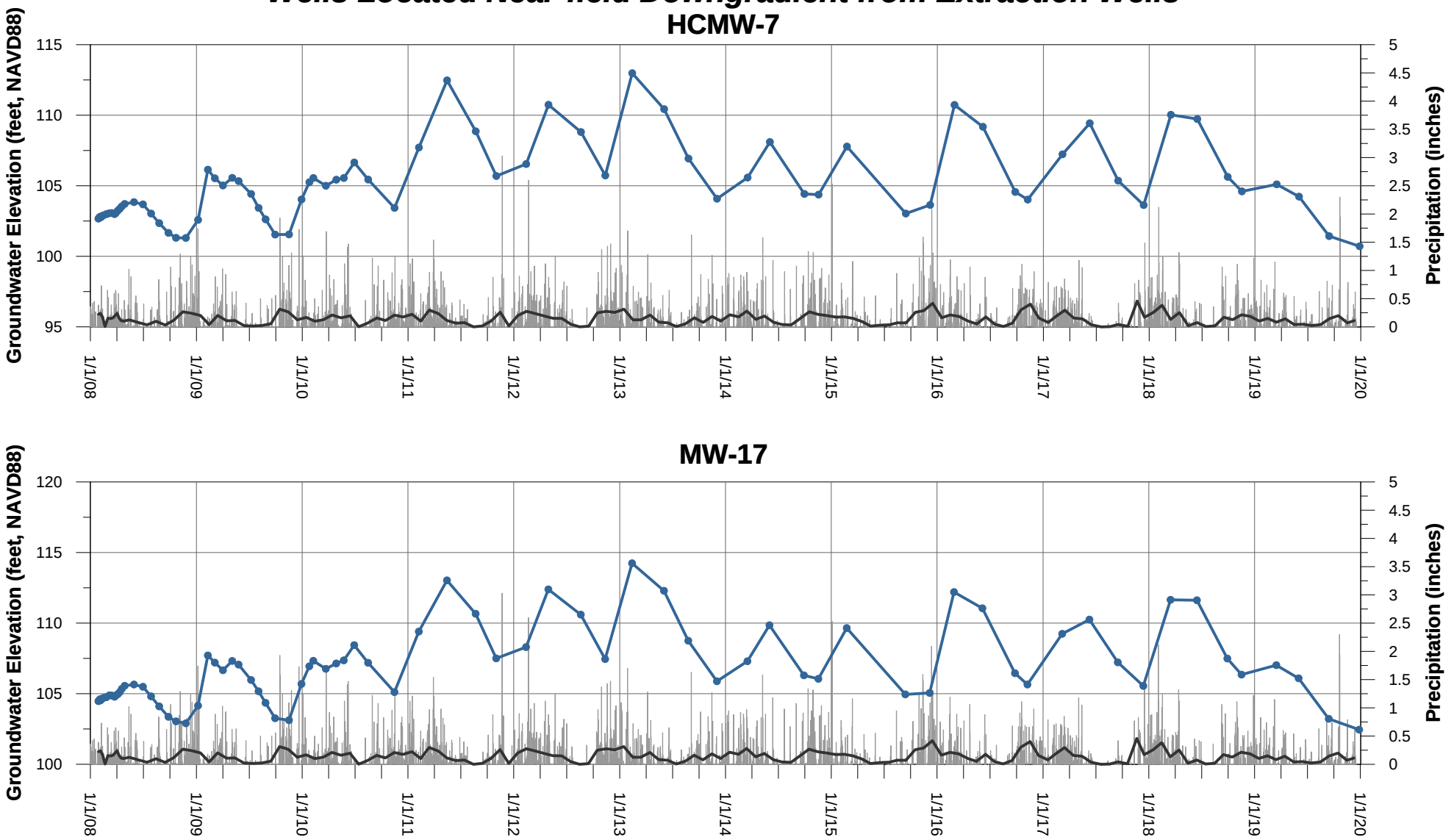
Arlington, Washington

Notes:

Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.
Precipitation includes rain and/or snow melt.

GSI Water Solutions, Inc.

Wells Located Near-field Downgradient from Extraction Wells



Legend:

- Groundwater Elevation
- Daily Precipitation
- Average Monthly Precipitation

FIGURE A-10

HCMW-7 and MW-17 Hydrographs with Precipitation

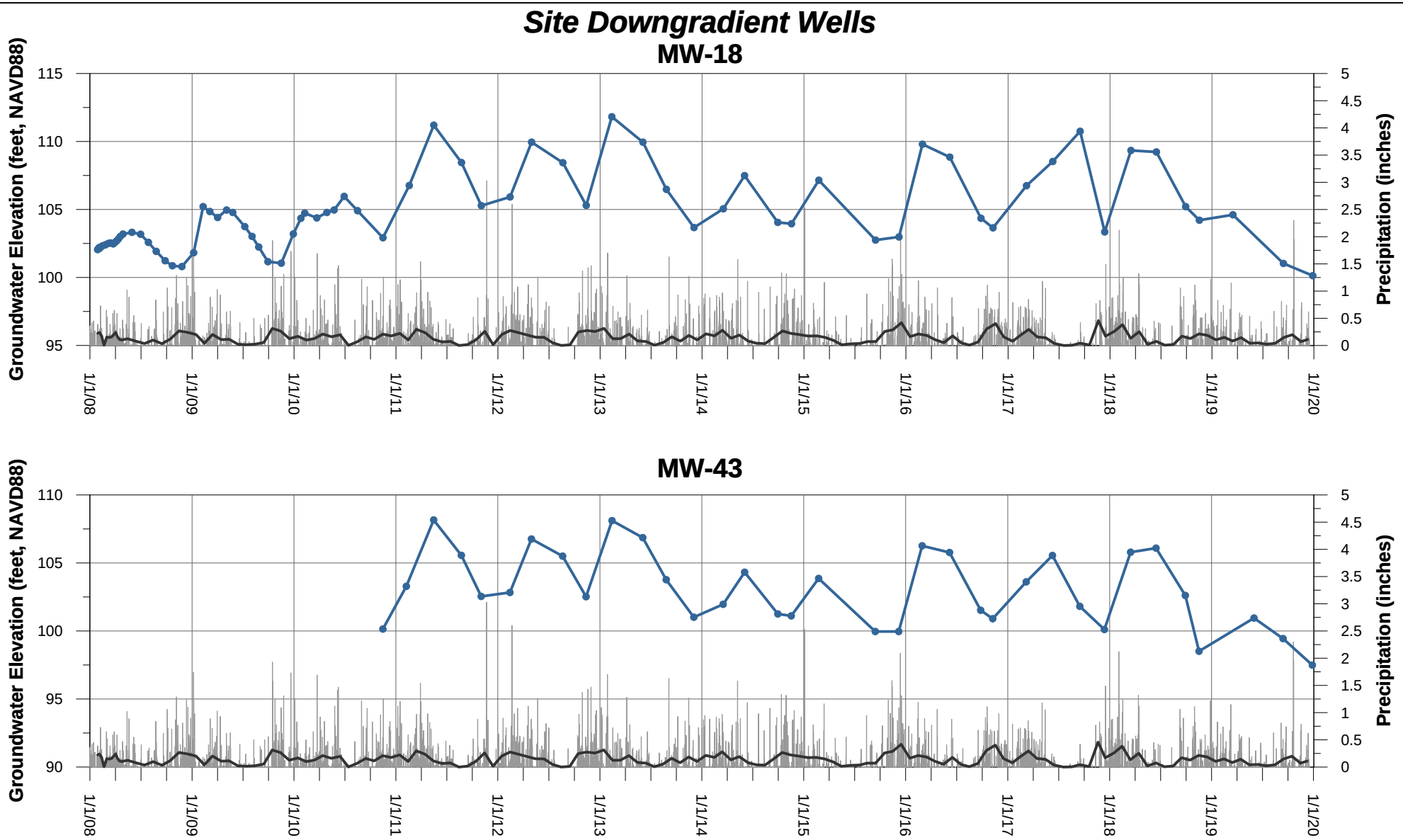
Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Notes:

Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.
Precipitation includes rain and/or snow melt.

GSI Water Solutions, Inc.



Legend:

- Groundwater Elevation
- Daily Precipitation
- Average Monthly Precipitation

FIGURE A-11

MW-18 and MW-43 Hydrographs with Precipitation

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

Notes:

Precipitation data source is the National Climatic Data Center (NCDC) Arlington, Washington Station 450257.
Precipitation includes rain and/or snow melt.

GSI Water Solutions, Inc.

Appendix B

(provided on CD only)

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-89238-1
Client Project/Site: Arlington, WA Groundwater

For:
J. H. Baxter & Co.
1700 S. El Camino Real
Suite 365
San Mateo, California 94402

Attn: Georgia Baxter

Authorized for release by:
10/3/2019 4:14:13 PM

Sheri Cruz, Project Manager I
(253)922-2310
sheri.cruz@testamericainc.com

Table of Contents

Job ID: 580-89238-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-89238-1

Comments
No additional comments.

Receipt
The samples were received on 9/16/2019 3:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.9º C and 2.3º C.

Receipt Exceptions
These sample arrived with very loose caps. Sample #HCMW-7 arrived with very low volume and loose cap also.

BXS-1 (580-89238-1), MW-2 (580-89238-2), MW-3 (580-89238-3), HCMW-7 (580-89238-4), MW-15 (580-89238-5), MW-16 (580-89238-6), MW-17 (580-89238-7), MW-22 (580-89238-12), MW-23 (580-89238-13), MW-24 (580-89238-14), MW-25 (580-89238-15), MW-26 (580-89238-16), MW-27 (580-89238-17), MW-28 (580-89238-18), MW-29 (580-89238-19), MW-30 (580-89238-20), MW-32 (580-89238-21), MW-33 (580-89238-22), MW-34 (580-89238-23), MW-36 (580-89238-24), MW-38 (580-89238-25), MW-39 (580-89238-26), MW-40 (580-89238-27), MW-42 (580-89238-28), MW-43 (580-89238-29), MW-44 (580-89238-30), EW-1 (580-89238-31), EW-2 (580-89238-32) and EW-4 (580-89238-33)

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): COC list MW-18 but we did not receive a sample MW-18. It did not arrive in the coolers.

GC/MS Semi VOA
Method(s) 8270D: Analytes 2,3,4,6-Tetrachlorophenol and 2,3,5,6-Tetrachlorophenol are requested by the client. These analytes cannot be distinguished using our mass spectrometry methods due to co-elution and similar mass spectra; quantitation of these analytes is reported as 2,3,4,6-Tetrachlorophenol, but is potentially the sum of both analytes.

Method(s) 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 580-311905 and analytical batch 580-312721 recovered outside control limits 2,3,4,6-Tetrachlorophenol and 2,4,6-Trichlorophenol. The individual recoveries were within control limits; therefore, the data is reported.

Method(s) 8270D SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 590-24232 and analytical batch 590-24234 recovered outside control limits for the following analytes: Pentachlorophenol. The individual recoveries were within acceptance limits, therefore data will be flagged and reported.

Method(s) 8270D SIM: Surrogate recovery for the following sample was outside control limits: MW-24 (580-89238-14). Evidence of matrix interference was present during extraction and caused heavy emulsion; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: BXS-1
Date Collected: 09/14/19 13:13
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-1
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	70		2.0	0.93	ug/L		09/19/19 14:21	09/20/19 15:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*44 - 120*	*09/19/19 14:21*	*09/20/19 15:04*	*10*
p-Terphenyl-d14	*101*		*51 - 121*	*09/19/19 14:21*	*09/20/19 15:04*	*10*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-2
Date Collected: 09/14/19 09:48
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-2
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.23	0.11	ug/L		09/19/19 14:21	09/19/19 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*44 - 120*	*09/19/19 14:21*	*09/19/19 17:44*	*1*
p-Terphenyl-d14	*79*		*51 - 121*	*09/19/19 14:21*	*09/19/19 17:44*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-3
Date Collected: 09/14/19 15:06
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-3
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	2300		20	9.4	ug/L		09/19/19 14:21	09/20/19 15:27	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*44 - 120*	*09/19/19 14:21*	*09/20/19 15:27*	*100*
p-Terphenyl-d14	*105*		*51 - 121*	*09/19/19 14:21*	*09/20/19 15:27*	*100*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: HCMW-7
Date Collected: 09/14/19 08:25
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-4
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.38		0.21	0.098	ug/L		09/19/19 14:21	09/19/19 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*44 - 120*	*09/19/19 14:21*	*09/19/19 18:31*	*1*
p-Terphenyl-d14	*82*		*51 - 121*	*09/19/19 14:21*	*09/19/19 18:31*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-15
Date Collected: 09/14/19 10:26
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-5
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.21	0.098	ug/L		09/19/19 14:21	09/19/19 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*44 - 120*	*09/19/19 14:21*	*09/19/19 18:54*	*1*
p-Terphenyl-d14	*71*		*51 - 121*	*09/19/19 14:21*	*09/19/19 18:54*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-16

Date Collected: 09/14/19 09:26
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-6

Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.21	0.097	ug/L		09/19/19 14:21	09/19/19 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*44 - 120*	*09/19/19 14:21*	*09/19/19 19:17*	*1*
p-Terphenyl-d14	*70*		*51 - 121*	*09/19/19 14:21*	*09/19/19 19:17*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-17
Date Collected: 09/15/19 10:06
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-7
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	8.3		0.21	0.097	ug/L		09/19/19 14:21	09/19/19 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*09/19/19 14:21*	*09/19/19 19:40*	*1*
p-Terphenyl-d14	*78*		*51 - 121*	*09/19/19 14:21*	*09/19/19 19:40*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-22
Date Collected: 09/14/19 14:41
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-12
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	94		2.0	0.93	ug/L		09/19/19 14:21	09/20/19 15:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*44 - 120*	*09/19/19 14:21*	*09/20/19 15:51*	*10*
p-Terphenyl-d14	*85*		*51 - 121*	*09/19/19 14:21*	*09/20/19 15:51*	*10*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-23
Date Collected: 09/14/19 14:16
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-13
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	3.9		0.20	0.093	ug/L		09/19/19 14:21	09/19/19 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*44 - 120*	*09/19/19 14:21*	*09/19/19 20:27*	*1*
p-Terphenyl-d14	*73*		*51 - 121*	*09/19/19 14:21*	*09/19/19 20:27*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-24
Date Collected: 09/15/19 09:37
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-14
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	79		2.0	0.95	ug/L		09/19/19 14:21	09/20/19 16:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*49*		*44 - 120*	*09/19/19 14:21*	*09/20/19 16:14*	*10*
p-Terphenyl-d14	*49*	*X*	*51 - 121*	*09/19/19 14:21*	*09/20/19 16:14*	*10*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-25
Date Collected: 09/15/19 08:05
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-15
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	84		2.0	0.93	ug/L		09/19/19 14:21	09/20/19 16:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*44 - 120*	*09/19/19 14:21*	*09/20/19 16:37*	*10*
p-Terphenyl-d14	*75*		*51 - 121*	*09/19/19 14:21*	*09/20/19 16:37*	*10*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-26
Date Collected: 09/15/19 08:31
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-16
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.66		0.20	0.093	ug/L		09/19/19 14:21	09/19/19 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*44 - 120*	*09/19/19 14:21*	*09/19/19 21:37*	*1*
p-Terphenyl-d14	*77*		*51 - 121*	*09/19/19 14:21*	*09/19/19 21:37*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-27
Date Collected: 09/15/19 09:02
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-17
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.26		0.20	0.093	ug/L		09/19/19 14:21	09/19/19 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*44 - 120*	*09/19/19 14:21*	*09/19/19 22:00*	*1*
p-Terphenyl-d14	*82*		*51 - 121*	*09/19/19 14:21*	*09/19/19 22:00*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-28
Date Collected: 09/14/19 13:39
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-18
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	9.8		0.20	0.093	ug/L		09/19/19 14:21	09/19/19 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*44 - 120*	*09/19/19 14:21*	*09/19/19 22:24*	*1*
p-Terphenyl-d14	*80*		*51 - 121*	*09/19/19 14:21*	*09/19/19 22:24*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-29
Date Collected: 09/14/19 12:18
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-19
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	8.7		0.20	0.092	ug/L		09/19/19 14:21	09/19/19 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*44 - 120*	*09/19/19 14:21*	*09/19/19 22:47*	*1*
p-Terphenyl-d14	*81*		*51 - 121*	*09/19/19 14:21*	*09/19/19 22:47*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-30
Date Collected: 09/14/19 10:16
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-20
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.20	0.093	ug/L		09/19/19 14:21	09/19/19 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*44 - 120*	*09/19/19 14:21*	*09/19/19 23:10*	*1*
p-Terphenyl-d14	*76*		*51 - 121*	*09/19/19 14:21*	*09/19/19 23:10*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-32
Date Collected: 09/15/19 07:40
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-21
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	720		4.0	1.9	ug/L		09/19/19 14:21	09/20/19 17:01	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*44 - 120*	*09/19/19 14:21*	*09/20/19 17:01*	*20*
p-Terphenyl-d14	*77*		*51 - 121*	*09/19/19 14:21*	*09/20/19 17:01*	*20*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-33
Date Collected: 09/14/19 15:35
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-22
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	29		0.20	0.093	ug/L		09/19/19 14:21	09/19/19 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*44 - 120*	*09/19/19 14:21*	*09/19/19 23:57*	*1*
p-Terphenyl-d14	*71*		*51 - 121*	*09/19/19 14:21*	*09/19/19 23:57*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-34
Date Collected: 09/14/19 12:45
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-23
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.53		0.20	0.092	ug/L		09/19/19 14:21	09/20/19 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*44 - 120*	*09/19/19 14:21*	*09/20/19 00:20*	*1*
p-Terphenyl-d14	*80*		*51 - 121*	*09/19/19 14:21*	*09/20/19 00:20*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-36
Date Collected: 09/14/19 11:26
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-24
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	35		0.20	0.092	ug/L		09/19/19 14:21	09/20/19 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*44 - 120*	*09/19/19 14:21*	*09/20/19 00:43*	*1*
p-Terphenyl-d14	*76*		*51 - 121*	*09/19/19 14:21*	*09/20/19 00:43*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-38
Date Collected: 09/14/19 11:54
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-25
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.55	*	0.23	0.11	ug/L		09/20/19 08:52	09/20/19 12:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*44 - 120*	*09/20/19 08:52*	*09/20/19 12:22*	*1*
p-Terphenyl-d14	*82*		*51 - 121*	*09/20/19 08:52*	*09/20/19 12:22*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-39
Date Collected: 09/14/19 08:56
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-26
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	9.3	*	0.20	0.093	ug/L		09/20/19 08:52	09/20/19 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*44 - 120*	*09/20/19 08:52*	*09/20/19 13:08*	*1*
p-Terphenyl-d14	*80*		*51 - 121*	*09/20/19 08:52*	*09/20/19 13:08*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-40
Date Collected: 09/14/19 10:45
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-27
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	59	*	0.21	0.096	ug/L		09/20/19 08:52	09/20/19 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*44 - 120*	*09/20/19 08:52*	*09/20/19 13:31*	*1*
p-Terphenyl-d14	*85*		*51 - 121*	*09/20/19 08:52*	*09/20/19 13:31*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-42
Date Collected: 09/14/19 07:25
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-28
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1.9	*	0.22	0.10	ug/L		09/20/19 08:52	09/20/19 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*44 - 120*	*09/20/19 08:52*	*09/20/19 13:54*	*1*
p-Terphenyl-d14	*86*		*51 - 121*	*09/20/19 08:52*	*09/20/19 13:54*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-43
Date Collected: 09/14/19 16:26
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-29
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.76	*	0.21	0.098	ug/L		09/20/19 08:52	09/20/19 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*44 - 120*	*09/20/19 08:52*	*09/20/19 14:18*	*1*
p-Terphenyl-d14	*91*		*51 - 121*	*09/20/19 08:52*	*09/20/19 14:18*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-44
Date Collected: 09/14/19 11:00
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-30
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND	*	0.20	0.093	ug/L		09/20/19 08:52	09/20/19 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*44 - 120*	*09/20/19 08:52*	*09/20/19 14:41*	*1*
p-Terphenyl-d14	*85*		*51 - 121*	*09/20/19 08:52*	*09/20/19 14:41*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: EW-1, 2, and 4 composite

Date Collected: 09/14/19 13:50
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-34

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.45	0.11	ug/L		09/20/19 17:46	09/30/19 15:30	1
2,4,6-Trichlorophenol	ND	*	0.67	0.11	ug/L		09/20/19 17:46	09/30/19 15:30	1
2,3,5,6-Tetrachlorophenol	**NC**		0.45	0.11	ug/L		09/20/19 17:46	09/30/19 15:30	1
2,3,4,6-Tetrachlorophenol	**7.2**	*	0.78	0.12	ug/L		09/20/19 17:46	09/30/19 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*48*		*48 - 125*	*09/20/19 17:46*	*09/30/19 15:30*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-311905/1-A
Matrix: Water
Analysis Batch: 312721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311905

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.40	0.10	ug/L		09/20/19 17:46	09/30/19 12:57	1
2,4,6-Trichlorophenol	ND		0.60	0.10	ug/L		09/20/19 17:46	09/30/19 12:57	1
2,3,5,6-Tetrachlorophenol	ND		0.40	0.10	ug/L		09/20/19 17:46	09/30/19 12:57	1
2,3,4,6-Tetrachlorophenol	ND		0.70	0.11	ug/L		09/20/19 17:46	09/30/19 12:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*55*		*48 - 125*	*09/20/19 17:46*	*09/30/19 12:57*	*1*

Lab Sample ID: LCS 580-311905/2-A
Matrix: Water
Analysis Batch: 312721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	2.00	1.16		ug/L		58	56 - 122
2,4,6-Trichlorophenol	2.00	1.09		ug/L		55	50 - 126
2,3,4,6-Tetrachlorophenol	2.00	1.23		ug/L		62	58 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*58*		*48 - 125*

Lab Sample ID: LCSD 580-311905/3-A
Matrix: Water
Analysis Batch: 312721

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 311905

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	2.00	1.42		ug/L		71	56 - 122	21	35
2,4,6-Trichlorophenol	2.00	1.70	*	ug/L		85	50 - 126	43	20
2,3,4,6-Tetrachlorophenol	2.00	1.69	*	ug/L		84	58 - 130	31	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*77*		*48 - 125*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-24224/1-A
Matrix: Water
Analysis Batch: 24223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24224

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.20	0.093	ug/L		09/19/19 14:21	09/19/19 16:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*44 - 120*	*09/19/19 14:21*	*09/19/19 16:11*	*1*
p-Terphenyl-d14	*90*		*51 - 121*	*09/19/19 14:21*	*09/19/19 16:11*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 590-24224/2-A
Matrix: Water
Analysis Batch: 24223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24224

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pentachlorophenol			3.20	2.14		ug/L		67	19 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*55*		*44 - 120*
p-Terphenyl-d14	*74*		*51 - 121*

Lab Sample ID: LCSD 590-24224/3-A
Matrix: Water
Analysis Batch: 24223

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24224

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol			3.20	2.45		ug/L		76	19 - 128	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*59*		*44 - 120*
p-Terphenyl-d14	*78*		*51 - 121*

Lab Sample ID: MB 590-24232/1-A
Matrix: Water
Analysis Batch: 24234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 24232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.20	0.093	ug/L		09/20/19 08:52	09/20/19 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*44 - 120*	*09/20/19 08:52*	*09/20/19 11:12*	*1*
p-Terphenyl-d14	*85*		*51 - 121*	*09/20/19 08:52*	*09/20/19 11:12*	*1*

Lab Sample ID: LCS 590-24232/2-A
Matrix: Water
Analysis Batch: 24234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 24232

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pentachlorophenol			3.20	3.88		ug/L		121	19 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*78*		*44 - 120*
p-Terphenyl-d14	*84*		*51 - 121*

Lab Sample ID: LCSD 590-24232/3-A
Matrix: Water
Analysis Batch: 24234

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24232

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol			3.20	2.66	*	ug/L		83	19 - 128	38	35

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 590-24232/3-A
Matrix: Water
Analysis Batch: 24234

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 24232

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	74		44 - 120
p-Terphenyl-d14	85		51 - 121

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: BXS-1
Lab Sample ID: 580-89238-1
Date Collected: 09/14/19 13:13
Matrix: Water
Date Received: 09/16/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		10	24234	09/20/19 15:04	NMI	TAL SPK

Client Sample ID: MW-2
Lab Sample ID: 580-89238-2
Date Collected: 09/14/19 09:48
Matrix: Water
Date Received: 09/16/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 17:44	NMI	TAL SPK

Client Sample ID: MW-3
Lab Sample ID: 580-89238-3
Date Collected: 09/14/19 15:06
Matrix: Water
Date Received: 09/16/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		100	24234	09/20/19 15:27	NMI	TAL SPK

Client Sample ID: HCMW-7
Lab Sample ID: 580-89238-4
Date Collected: 09/14/19 08:25
Matrix: Water
Date Received: 09/16/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 18:31	NMI	TAL SPK

Client Sample ID: MW-15
Lab Sample ID: 580-89238-5
Date Collected: 09/14/19 10:26
Matrix: Water
Date Received: 09/16/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 18:54	NMI	TAL SPK

Client Sample ID: MW-16
Lab Sample ID: 580-89238-6
Date Collected: 09/14/19 09:26
Matrix: Water
Date Received: 09/16/19 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 19:17	NMI	TAL SPK

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-17
Date Collected: 09/15/19 10:06
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 19:40	NMI	TAL SPK

Client Sample ID: MW-22
Date Collected: 09/14/19 14:41
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		10	24234	09/20/19 15:51	NMI	TAL SPK

Client Sample ID: MW-23
Date Collected: 09/14/19 14:16
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 20:27	NMI	TAL SPK

Client Sample ID: MW-24
Date Collected: 09/15/19 09:37
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		10	24234	09/20/19 16:14	NMI	TAL SPK

Client Sample ID: MW-25
Date Collected: 09/15/19 08:05
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		10	24234	09/20/19 16:37	NMI	TAL SPK

Client Sample ID: MW-26
Date Collected: 09/15/19 08:31
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 21:37	NMI	TAL SPK

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-27
Date Collected: 09/15/19 09:02
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 22:00	NMI	TAL SPK

Client Sample ID: MW-28
Date Collected: 09/14/19 13:39
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 22:24	NMI	TAL SPK

Client Sample ID: MW-29
Date Collected: 09/14/19 12:18
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 22:47	NMI	TAL SPK

Client Sample ID: MW-30
Date Collected: 09/14/19 10:16
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 23:10	NMI	TAL SPK

Client Sample ID: MW-32
Date Collected: 09/15/19 07:40
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		20	24234	09/20/19 17:01	NMI	TAL SPK

Client Sample ID: MW-33
Date Collected: 09/14/19 15:35
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/19/19 23:57	NMI	TAL SPK

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-34
Date Collected: 09/14/19 12:45
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/20/19 00:20	NMI	TAL SPK

Client Sample ID: MW-36
Date Collected: 09/14/19 11:26
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24224	09/19/19 14:21	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24223	09/20/19 00:43	NMI	TAL SPK

Client Sample ID: MW-38
Date Collected: 09/14/19 11:54
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24232	09/20/19 08:52	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24234	09/20/19 12:22	NMI	TAL SPK

Client Sample ID: MW-39
Date Collected: 09/14/19 08:56
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24232	09/20/19 08:52	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24234	09/20/19 13:08	NMI	TAL SPK

Client Sample ID: MW-40
Date Collected: 09/14/19 10:45
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24232	09/20/19 08:52	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24234	09/20/19 13:31	NMI	TAL SPK

Client Sample ID: MW-42
Date Collected: 09/14/19 07:25
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24232	09/20/19 08:52	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24234	09/20/19 13:54	NMI	TAL SPK

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Client Sample ID: MW-43
Date Collected: 09/14/19 16:26
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24232	09/20/19 08:52	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24234	09/20/19 14:18	NMI	TAL SPK

Client Sample ID: MW-44
Date Collected: 09/14/19 11:00
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			24232	09/20/19 08:52	AMB	TAL SPK
Total/NA	Analysis	8270D SIM		1	24234	09/20/19 14:41	NMI	TAL SPK

Client Sample ID: EW-1, 2, and 4 composite
Date Collected: 09/14/19 13:50
Date Received: 09/16/19 15:00

Lab Sample ID: 580-89238-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			311905	09/20/19 17:46	N1C	TAL SEA
Total/NA	Analysis	8270D		1	312721	09/30/19 15:30	T1W	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: J. H. Baxter & Co.
Job ID: 580-89238-1
Project/Site: Arlington, WA Groundwater

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-19
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-05-19
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00039	02-10-20
Washington	State	C553	02-17-20

Laboratory: Eurofins TestAmerica, Spokane

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-025	12-07-19
Oregon	NELAP	4137	12-07-19
Washington	State	C569	01-06-20

Sample Summary

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-89238-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-89238-1	BXS-1	Water	09/14/19 13:13	09/16/19 15:00	
580-89238-2	MW-2	Water	09/14/19 09:48	09/16/19 15:00	
580-89238-3	MW-3	Water	09/14/19 15:06	09/16/19 15:00	
580-89238-4	HCMW-7	Water	09/14/19 08:25	09/16/19 15:00	
580-89238-5	MW-15	Water	09/14/19 10:26	09/16/19 15:00	
580-89238-6	MW-16	Water	09/14/19 09:26	09/16/19 15:00	
580-89238-7	MW-17	Water	09/15/19 10:06	09/16/19 15:00	
580-89238-12	MW-22	Water	09/14/19 14:41	09/16/19 15:00	
580-89238-13	MW-23	Water	09/14/19 14:16	09/16/19 15:00	
580-89238-14	MW-24	Water	09/15/19 09:37	09/16/19 15:00	
580-89238-15	MW-25	Water	09/15/19 08:05	09/16/19 15:00	
580-89238-16	MW-26	Water	09/15/19 08:31	09/16/19 15:00	
580-89238-17	MW-27	Water	09/15/19 09:02	09/16/19 15:00	
580-89238-18	MW-28	Water	09/14/19 13:39	09/16/19 15:00	
580-89238-19	MW-29	Water	09/14/19 12:18	09/16/19 15:00	
580-89238-20	MW-30	Water	09/14/19 10:16	09/16/19 15:00	
580-89238-21	MW-32	Water	09/15/19 07:40	09/16/19 15:00	
580-89238-22	MW-33	Water	09/14/19 15:35	09/16/19 15:00	
580-89238-23	MW-34	Water	09/14/19 12:45	09/16/19 15:00	
580-89238-24	MW-36	Water	09/14/19 11:26	09/16/19 15:00	
580-89238-25	MW-38	Water	09/14/19 11:54	09/16/19 15:00	
580-89238-26	MW-39	Water	09/14/19 08:56	09/16/19 15:00	
580-89238-27	MW-40	Water	09/14/19 10:45	09/16/19 15:00	
580-89238-28	MW-42	Water	09/14/19 07:25	09/16/19 15:00	
580-89238-29	MW-43	Water	09/14/19 16:26	09/16/19 15:00	
580-89238-30	MW-44	Water	09/14/19 11:00	09/16/19 15:00	
580-89238-34	EW-1, 2, and 4 composite	Water	09/14/19 13:50	09/16/19 15:00	

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www.testamericainc.com

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Chain of Custody Record

Client: JH Baxter | Client Contact | Date: 9/15/19 | Chain of Custody Number: 38482
Address | Telephone Number (Area Code)/Fax Number | Lab Number | Page 1 of 3
City | State | Zip Code | Sampler: M. Houser | Lab Contact | Analysis (Attach list if more space is needed)
Project Name and Location (State): Arlington WA | Billing Contact
Contract/Purchase Order/Quote No.

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8270D-SIM Pentachlorophenol
BXS-1	9/14/19	1313		X									X
MW-2		0948											X
MW-3		1506											X
HCMW-7		0825											X
MW-15		1026											X
MW-16	9/14/19	0926											X
MW-17	9/15/19	1006											X
MW-18	9/14/19	0800											X
MW-22		1441											X
MW-23	9/14/19	1416											X
MW-24	9/15/19	0937											X
MW-25	9/15/19	0805		X									X

Special Instructions/ Conditions of Receipt

580-89238 Chain of Custody

Therm. ID: IR5 Cor: 2.3 ° Unc: 2.4 °
Cooler Dsc: Lg Blue
Packing: Bubble
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour: X
Other:

Therm. ID: IR5 Cor: 1.9 ° Unc: 2.0 °
Cooler Dsc: Lg CRW
Packing: Bubble
Cust. Seal: Yes X No
Blue Ice, Wet, Dry, None
FedEx:
UPS:
Lab Cour: X
Other:

Cooler: ☐ Yes ☐ No Cooler Temp: _____
Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown
Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print: M. Houser	9/16/19	0600	1. Received By Sign/Print: B. Hall SEATA	9.16.19	1500
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

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Chain of Custody Record

Client: BAKER | Client Contact | Date: 9/15/19 | Chain of Custody Number: 38478
Address | Telephone Number (Area Code)/Fax Number | Lab Number | Page 2 of 3
City | State | Zip Code | Sampler: M. Hauser | Lab Contact
Project Name and Location (State): Arlington WA | Billing Contact
Contract/Purchase Order/Quote No.

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Analysis: 8270D_SIM	RENTACHLOROPHENOL	Special Instructions/ Conditions of Receipt
~~MW-25~~	~~9/15/19~~	~~0805~~		X	MS								X		
MW-26	9/15/19	0831		X											
MW-27	9/15/19	0902													
MW-28	9/14/19	1339													
MW-29	"	1218													
MW-30	9/14/19	1016													
MW-32	9/15/19	0740													
MW-33	9/14/19	1535													
MW-34	"	1245													
MW-36	"	1126													
MW-38	"	1154													
MW-39	9/14/19	0856		X									X	X MH	

Cooler: ☐ Yes ☐ No Cooler Temp: _____
Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown
Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time
1. Relinquished By Sign/Print: M. Hauser M. Hauser	9/16/19	0600
1. Received By Sign/Print: B. Zell SEA TA	9-16-19	1500
2. Relinquished By Sign/Print		
2. Received By Sign/Print		
3. Relinquished By Sign/Print		
3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

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Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
Baxter			38478
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 3 of 3
City / State / Zip Code	Sampler: M. Hansen	Lab Contact	Analysis (Attach list if more space is needed)
Project Name and Location (State): Arlington WA	Billing Contact		Special Instructions/ Conditions of Receipt
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	8270D SIM	Pentachlorophenol	8260D	8260D MOD Analytes
MW-40	9/14/19	1045		X	1								X			
MW-42		0725											X			
MW-43		1626											X			
MW-44		1100											R			
EW-1		1350													X	
EW-2		1340													X	
~~EW-5~~ MW																
EW-4		1330		X											X	

Cooler: ☑ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By Sign/Print	Date	Time	1. Received By Sign/Print	Date	Time
M. Hansen	9/14/19	0800	B. Gall SEA TA	9.16.19	1500
2. Relinquished By Sign/Print	Date	Time	2. Received By Sign/Print	Date	Time
3. Relinquished By Sign/Print	Date	Time	3. Received By Sign/Print	Date	Time

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cruz, Sheri L	Carrier Tracking No(s):	COC No: 580-70129.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sheri.cruz@testamericainc.com	State of Origin: Washington	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note):		Job #: 580-89238-1
Address: 11922 East 1st Ave, ,	Due Date Requested: 9/26/2019			
City: Spokane	TAT Requested (days):			
State, Zip: WA, 99206				
Phone: 509-924-9200(Tel) 509-924-9290(Fax)	PO #:			
Email:	WO #:			
Project Name: Arlington, WA Groundwater	Project #: 58014229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM/3510C_LVI Pentachlorophenol	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
BXS-1 (580-89238-1)	9/14/19	13:13 Pacific		Water			X	2	
MW-2 (580-89238-2)	9/14/19	09:48 Pacific		Water			X	2	
MW-3 (580-89238-3)	9/14/19	15:06 Pacific		Water			X	2	
HCMW-7 (580-89238-4)	9/14/19	08:25 Pacific		Water			X	2	
MW-15 (580-89238-5)	9/14/19	10:26 Pacific		Water			X	2	
MW-16 (580-89238-6)	9/14/19	09:26 Pacific		Water			X	2	
MW-17 (580-89238-7)	9/15/19	10:06 Pacific		Water			X	2	
MW-22 (580-89238-12)	9/14/19	14:41 Pacific		Water			X	2	
MW-23 (580-89238-13)	9/14/19	14:16 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/18/19 1240	TASEA	Maria Clock	9/19/19 13:29	ASA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3 3.0

Ver: 01/16/2019

10/3/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cruz, Sheri L	Carrier Tracking No(s):	COC No: 580-70129.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sheri.cruz@testamericainc.com	State of Origin: Washington	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note):		Job #: 580-89238-1
Address: 11922 East 1st Ave,	Due Date Requested: 9/26/2019			
City: Spokane	TAT Requested (days):			
State, Zip: WA, 99206				
Phone: 509-924-9200(Tel) 509-924-9290(Fax)	PO #:			
Email:	WO #:			
Project Name: Arlington, WA Groundwater	Project #: 58014229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM/3510C_LVI Pentachlorophenol	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
MW-24 (580-89238-14)	9/15/19	09:37 Pacific		Water			X	2	
MW-25 (580-89238-15)	9/15/19	08:05 Pacific		Water			X	2	
MW-26 (580-89238-16)	9/15/19	08:31 Pacific		Water			X	2	
MW-27 (580-89238-17)	9/15/19	09:02 Pacific		Water			X	2	
MW-28 (580-89238-18)	9/14/19	13:39 Pacific		Water			X	2	
MW-29 (580-89238-19)	9/14/19	12:18 Pacific		Water			X	2	
MW-30 (580-89238-20)	9/14/19	10:16 Pacific		Water			X	2	
MW-32 (580-89238-21)	9/15/19	07:40 Pacific		Water			X	2	
MW-33 (580-89238-22)	9/14/19	15:35 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	9/18/19 1240	TASEA	[signature]	9/19/19 13:29	TASEA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3 3.0

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Cruz, Sheri L	Carrier Tracking No(s):	COC No: 580-70129.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: sheri.cruz@testamericainc.com	State of Origin: Washington	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note):		Job #: 580-89238-1
Address: 11922 East 1st Ave, ,	Due Date Requested: 9/26/2019	Analysis Requested		Preservation Codes:
City: Spokane	TAT Requested (days):			
State, Zip: WA, 99206				
Phone: 509-924-9200(Tel) 509-924-9290(Fax)	PO #:			
Email:	WO #:			
Project Name: Arlington, WA Groundwater	Project #: 58014229			
Site:	SSOW#:			Other:

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM/3510C_LVI Pentachlorophenol	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-34 (580-89238-23)	9/14/19	12:45 Pacific		Water			X	2	
MW-36 (580-89238-24)	9/14/19	11:26 Pacific		Water			X	2	
MW-38 (580-89238-25)	9/14/19	11:54 Pacific		Water			X	2	
MW-39 (580-89238-26)	9/14/19	08:56 Pacific		Water			X	2	
MW-40 (580-89238-27)	9/14/19	10:45 Pacific		Water			X	2	
MW-42 (580-89238-28)	9/14/19	07:25 Pacific		Water			X	2	
MW-43 (580-89238-29)	9/14/19	16:26 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For ____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/18/19 1240	TASEA	Maria O'Toole	9/19/19 13:29	VPPL

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3 3.0

Login Sample Receipt Checklist

Client: J. H. Baxter & Co.

Job Number: 580-89238-1

Login Number: 89238
List Number: 1
Creator: Vallelunga, Diana L

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: J. H. Baxter & Co.

Job Number: 580-89238-1

Login Number: 89238
List Number: 2
Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane
List Creation: 09/19/19 01:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	497187
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	3.3 3.0
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

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ANALYTICAL REPORT

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-91765-1
Client Project/Site: Arlington, WA Groundwater

For:
J. H. Baxter & Co.
1700 S. El Camino Real
Suite 365
San Mateo, California 94402

Attn: Georgia Baxter

Authorized for release by:
1/17/2020 2:56:02 PM

Sheri Cruz, Project Manager I
(253)922-2310
sheri.cruz@testamericainc.com

Table of Contents

Job ID: 580-91765-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-91765-1

Comments
No additional comments.

Receipt
The samples were received on 12/30/2019 12:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.0º C and 2.1º C.

Samples 580-97165-31 (EW-1) and 580-91765-32 (EW-4) indicated 8270D_SIM but 1L Ambers were received so they were logged in for 8270D PCP breakdown phenol analytes.

GC/MS Semi VOA
Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: EW-4 (580-91765-32). Elevated reporting limits (RLs) are provided.

Method 8270D: Analytes 2,3,4,6-Tetrachlorophenol and 2,3,5,6-Tetrachlorophenol are requested by the client. These analytes cannot be distinguished using our mass spectrometry methods due to o-elution and similar mass spectra; quantitation of these analytes is reported as 2,3,4,6-Tetrachlorophenol but is potentially the sum of both analytes.

Method 8270D SIM: The (DFTPP 580-320109/2) associated with the batch 580-320109 had a tailing factor that was >2 for the analyte Benzidine_T. Since the Pentachlorophenol_T passed the necessary tailing parameters and the associated samples are associated with the analyte Pentachlorophenol, the data has been reported.

Method 8270D SIM: The surrogate 2,4,6-Tribromophenol of CCVIS associated with batch 580-320109 have %D outside control limits. Since the %Recovery is within the acceptance criteria for the surrogate in associated sample and other surrogates and target analytes were within %D criteria; therefore, the data have been reported. (CCVIS 580-320109/3)

Method 8270D SIM: The surrogate 2,4,6-Tribromophenol of CCVIS associated with batch 580-320112 have %D outside control limits. Since the %Recovery is within the acceptance criteria for the surrogate in associated sample and all the other surrogates and target analytes were within %D criteria; therefore, the data have been reported. (CCVIS 580-320112/3)

Method 8270D SIM: Continuing calibration verification (CCV) standard associated with batch 580-320191 recovered outside %Drift acceptance criteria for 2,4,6-Tribromophenol surrogate. The %Recovery is within acceptance criteria for the surrogate in the CCV and associated samples; therefore, the data are qualified and reported. (CCVIS 580-320191/3)

Method 8270D SIM: The (DFTPP 580-320188/2) associated with the batch 580-320188 had a tailing factor that was >2 for the analyte Benzidine_T. Since the Pentachlorophenol_T passed the necessary tailing parameters and the associated samples are associated with the analyte Pentachlorophenol, the data has been reported.

Method 8270D SIM: The following samples were diluted to bring the concentration of target analytes within the calibration range: BXS-1 (580-91765-1), MW-3 (580-91765-4), MW-25 (580-91765-13), MW-32 (580-91765-20), MW-33 (580-91765-21), MW-38 (580-91765-25) and MW-40 (580-91765-26). Elevated reporting limits (RLs) are provided.

Method 8270D SIM: The following samples were diluted due to the nature of the sample matrix: MW-35 (580-91765-23) and MW-45 (580-91765-30). Elevated reporting limits (RLs) are provided.

Method 8270D SIM: The following samples required a dilution due to the nature of the sample matrix: BXS-1 (580-91765-1), MW-3 (580-91765-4) and MW-25 (580-91765-13). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Job ID: 580-91765-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

JCM 01/05/2020: Gross weight for affected samples was obtained by averaging the weight of three containers (of the same type as the sample containers) filled with deionized water. The volume calculation using this weight is approximately 240 mL for the samples, a reasonable approximation assuming filled/nearly filled containers. Affected Samples: MW-28 (580-91765-16), MW-29 (580-91765-17), MW-30 (580-91765-18), MW-31 (580-91765-19), MW-32 (580-91765-20), MW-33 (580-91765-21), MW-34 (580-91765-22), MW-35 (580-91765-23), MW-36 (580-91765-24), MW-38 (580-91765-25), MW-40 (580-91765-26), MW-42 (580-91765-27), MW-43 (580-91765-28), Field Blank (580-91765-29) and MW-45 (580-91765-30)

Method 3510C: The following samples formed emulsions during the extraction procedure: MW-35 (580-91765-23), MW-38 (580-91765-25) and MW-45 (580-91765-30). The emulsions were broken up using extra sodium sulfate.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: BXS-1
Date Collected: 12/28/19 16:05
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-1
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	110		93	17	ug/L		12/31/19 16:06	01/08/20 12:54	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*37*	*X*	*48 - 143*	*12/31/19 16:06*	*01/08/20 12:54*	*100*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: BXS-2
Date Collected: 12/29/19 08:46
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-2
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.56	J	0.96	0.17	ug/L		12/31/19 16:06	01/07/20 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*101*		*48 - 143*	*12/31/19 16:06*	*01/07/20 17:00*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-2
Date Collected: 12/28/19 11:16
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-3
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.57	J	1.0	0.18	ug/L		12/31/19 16:06	01/07/20 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*93*		*48 - 143*	*12/31/19 16:06*	*01/07/20 17:25*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-3
Date Collected: 12/29/19 12:54
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-4
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	2300		94	17	ug/L		12/31/19 16:06	01/08/20 14:16	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*48 - 143*	*12/31/19 16:06*	*01/08/20 13:19*	*10000*
2,4,6-Tribromophenol	*0*	*X*	*48 - 143*	*12/31/19 16:06*	*01/08/20 14:16*	*100*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: HCMW-7
Date Collected: 12/28/19 10:14
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-5
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.62	J	0.99	0.18	ug/L		12/31/19 16:06	01/07/20 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*90*		*48 - 143*	*12/31/19 16:06*	*01/07/20 18:14*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-15

Date Collected: 12/28/19 14:20
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-6

Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.54	J	0.99	0.18	ug/L		12/31/19 16:06	01/07/20 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*48 - 143*	*12/31/19 16:06*	*01/07/20 18:39*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-16
Date Collected: 12/28/19 10:48
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-7
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.52	J	1.0	0.18	ug/L		12/31/19 16:06	01/07/20 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*48 - 143*	*12/31/19 16:06*	*01/07/20 19:03*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-17
Date Collected: 12/28/19 15:07
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-8
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.48	J	0.94	0.17	ug/L		12/31/19 16:06	01/07/20 19:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*96*		*48 - 143*	*12/31/19 16:06*	*01/07/20 19:28*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-18
Date Collected: 12/28/19 08:29
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-9
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.47	J	0.93	0.17	ug/L		12/31/19 16:06	01/07/20 19:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*48 - 143*	*12/31/19 16:06*	*01/07/20 19:53*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-22
Date Collected: 12/29/19 11:10
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-10
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	22		1.0	0.18	ug/L		12/31/19 16:06	01/07/20 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*112*		*48 - 143*	*12/31/19 16:06*	*01/07/20 20:18*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-23
Date Collected: 12/29/19 10:40
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-11
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1.2		0.92	0.17	ug/L		12/31/19 16:06	01/07/20 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*96*		*48 - 143*	*12/31/19 16:06*	*01/07/20 20:42*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-24
Date Collected: 12/29/19 10:15
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-12
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	49		0.98	0.18	ug/L		12/31/19 16:06	01/07/20 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*48 - 143*	*12/31/19 16:06*	*01/07/20 21:07*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-25
Date Collected: 12/29/19 11:55
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-13
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	200		110	20	ug/L		12/31/19 16:06	01/08/20 13:43	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*0*	*X*	*48 - 143*	*12/31/19 16:06*	*01/08/20 13:43*	*100*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-26
Date Collected: 12/29/19 09:18
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-14
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.51	J	0.93	0.17	ug/L		12/31/19 16:06	01/07/20 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*80*		*48 - 143*	*12/31/19 16:06*	*01/07/20 21:57*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-27
Date Collected: 12/29/19 09:47
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-15
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.53	J	1.0	0.18	ug/L		12/31/19 16:06	01/07/20 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*84*		*48 - 143*	*12/31/19 16:06*	*01/07/20 22:21*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-28
Date Collected: 12/29/19 08:21
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-16
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.31	J	1.0	0.19	ug/L		01/03/20 20:30	01/07/20 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*86*		*48 - 143*	*01/03/20 20:30*	*01/07/20 12:41*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-29
Date Collected: 12/28/19 13:11
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-17
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.19	ug/L		01/03/20 20:30	01/07/20 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*87*		*48 - 143*	*01/03/20 20:30*	*01/07/20 13:08*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-30
Date Collected: 12/28/19 11:49
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-18
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.19	ug/L		01/03/20 20:30	01/07/20 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*48 - 143*	*01/03/20 20:30*	*01/07/20 13:34*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-31
Date Collected: 12/29/19 13:52
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-19
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1.1		1.1	0.19	ug/L		01/03/20 20:30	01/07/20 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*78*		*48 - 143*	*01/03/20 20:30*	*01/07/20 14:00*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-32
Date Collected: 12/29/19 11:33
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-20
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	220		100	19	ug/L		01/03/20 20:30	01/08/20 12:28	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*64*		*48 - 143*	*01/03/20 20:30*	*01/08/20 12:28*	*100*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-33
Date Collected: 12/29/19 12:28
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-21
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	100		10	1.9	ug/L		01/03/20 20:30	01/09/20 14:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*48 - 143*	*01/03/20 20:30*	*01/09/20 14:37*	*10*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-34
Date Collected: 12/28/19 12:17
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-22
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.19	ug/L		01/03/20 20:30	01/07/20 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*72*		*48 - 143*	*01/03/20 20:30*	*01/07/20 15:19*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-35
Date Collected: 12/29/19 13:25
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-23
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1.1	J	5.2	0.94	ug/L		01/03/20 20:30	01/08/20 13:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*85*		*48 - 143*	*01/03/20 20:30*	*01/08/20 13:20*	*5*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-36
Date Collected: 12/28/19 15:40
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-24
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	16		1.1	0.19	ug/L		01/03/20 20:30	01/07/20 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*67*		*48 - 143*	*01/03/20 20:30*	*01/07/20 16:12*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-38
Date Collected: 12/28/19 12:43
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-25
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	51		10	1.9	ug/L		01/03/20 20:30	01/09/20 15:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*75*		*48 - 143*	*01/03/20 20:30*	*01/09/20 15:03*	*10*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-40
Date Collected: 12/28/19 14:41
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-26
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	140		110	19	ug/L		01/03/20 20:30	01/08/20 14:13	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*68*		*48 - 143*	*01/03/20 20:30*	*01/08/20 14:13*	*100*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-42
Date Collected: 12/28/19 09:04
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-27
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1.4		1.0	0.19	ug/L		01/03/20 20:30	01/07/20 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*77*		*48 - 143*	*01/03/20 20:30*	*01/07/20 17:31*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-43
Date Collected: 12/28/19 09:41
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-28
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.19	ug/L		01/03/20 20:30	01/07/20 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*83*		*48 - 143*	*01/03/20 20:30*	*01/07/20 17:57*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: Field Blank

Date Collected: 12/29/19 12:45
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-29

Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.19	ug/L		01/03/20 20:30	01/07/20 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*62*		*48 - 143*	*01/03/20 20:30*	*01/07/20 18:23*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-45
Date Collected: 12/29/19 13:30
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-30
Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1.0	J	5.2	0.94	ug/L		01/03/20 20:30	01/08/20 14:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*81*		*48 - 143*	*01/03/20 20:30*	*01/08/20 14:39*	*5*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: EW-1
Date Collected: 12/29/19 09:40
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-31
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.38	0.095	ug/L		01/02/20 12:44	01/08/20 19:17	1
2,4,6-Trichlorophenol	ND		0.57	0.095	ug/L		01/02/20 12:44	01/08/20 19:17	1
2,3,5,6-Tetrachlorophenol	ND		0.38	0.095	ug/L		01/02/20 12:44	01/08/20 19:17	1
2,3,4,6-Tetrachlorophenol	**2.5**		0.67	0.10	ug/L		01/02/20 12:44	01/08/20 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*48 - 125*	*01/02/20 12:44*	*01/08/20 19:17*	*1*
2-Fluorophenol (Surr)	*44*		*36 - 120*	*01/02/20 12:44*	*01/08/20 19:17*	*1*
Phenol-d5 (Surr)	*42*		*38 - 120*	*01/02/20 12:44*	*01/08/20 19:17*	*1*

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: EW-4

Lab Sample ID: 580-91765-32

Date Collected: 12/28/19 09:30

Matrix: Water

Date Received: 12/30/19 12:20

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	0.16	J	0.38	0.095	ug/L		01/02/20 12:44	01/08/20 19:40	1
2,4,6-Trichlorophenol	0.18	J	0.57	0.095	ug/L		01/02/20 12:44	01/08/20 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*79*		*48 - 125*	*01/02/20 12:44*	*01/08/20 19:40*	*1*
2-Fluorophenol (Surr)	*69*		*36 - 120*	*01/02/20 12:44*	*01/08/20 19:40*	*1*
Phenol-d5 (Surr)	*69*		*38 - 120*	*01/02/20 12:44*	*01/08/20 19:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,5,6-Tetrachlorophenol	NC		9.5	2.4	ug/L		01/02/20 12:44	01/16/20 13:08	25
2,3,4,6-Tetrachlorophenol	26		17	2.6	ug/L		01/02/20 12:44	01/16/20 13:08	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*115*		*48 - 125*	*01/02/20 12:44*	*01/16/20 13:08*	*25*
2-Fluorophenol (Surr)	*41*		*36 - 120*	*01/02/20 12:44*	*01/16/20 13:08*	*25*
Phenol-d5 (Surr)	*28*	*X*	*38 - 120*	*01/02/20 12:44*	*01/16/20 13:08*	*25*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-319965/1-A
Matrix: Water
Analysis Batch: 320186

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.40	0.10	ug/L		01/02/20 12:44	01/08/20 16:57	1
2,4,6-Trichlorophenol	ND		0.60	0.10	ug/L		01/02/20 12:44	01/08/20 16:57	1
2,3,5,6-Tetrachlorophenol	ND		0.40	0.10	ug/L		01/02/20 12:44	01/08/20 16:57	1
2,3,4,6-Tetrachlorophenol	ND		0.70	0.11	ug/L		01/02/20 12:44	01/08/20 16:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*49*		*48 - 125*	*01/02/20 12:44*	*01/08/20 16:57*	*1*
2-Fluorophenol (Surr)	*71*		*36 - 120*	*01/02/20 12:44*	*01/08/20 16:57*	*1*
Phenol-d5 (Surr)	*68*		*38 - 120*	*01/02/20 12:44*	*01/08/20 16:57*	*1*

Lab Sample ID: LCS 580-319965/2-A
Matrix: Water
Analysis Batch: 320186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	2.00	1.62		ug/L		81	56 - 122
2,4,6-Trichlorophenol	2.00	1.45		ug/L		72	50 - 126
2,3,4,6-Tetrachlorophenol	2.00	1.36		ug/L		68	58 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*48 - 125*
2-Fluorophenol (Surr)	*78*		*36 - 120*
Phenol-d5 (Surr)	*79*		*38 - 120*

Lab Sample ID: LCSD 580-319965/3-A
Matrix: Water
Analysis Batch: 320186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 319965

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-Trichlorophenol	2.00	1.66		ug/L		83	56 - 122	3	35
2,4,6-Trichlorophenol	2.00	1.43		ug/L		71	50 - 126	1	20
2,3,4,6-Tetrachlorophenol	2.00	1.28		ug/L		64	58 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*85*		*48 - 125*
2-Fluorophenol (Surr)	*73*		*36 - 120*
Phenol-d5 (Surr)	*78*		*38 - 120*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-319940/1-A
Matrix: Water
Analysis Batch: 320109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.18	ug/L		12/31/19 16:06	01/07/20 15:21	1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 580-319940/1-A
Matrix: Water
Analysis Batch: 320109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319940

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		48 - 143	12/31/19 16:06	01/07/20 15:21	1

Lab Sample ID: LCS 580-319940/2-A
Matrix: Water
Analysis Batch: 320109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	8.00	6.34		ug/L		79	39 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	108		48 - 143

Lab Sample ID: LCSD 580-319940/3-A
Matrix: Water
Analysis Batch: 320109

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 319940

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol	8.00	5.53		ug/L		69	39 - 150	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol	117		48 - 143

Lab Sample ID: MB 580-319992/1-A
Matrix: Water
Analysis Batch: 320112

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 319992

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		1.0	0.18	ug/L		01/03/20 20:30	01/07/20 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		48 - 143	01/03/20 20:30	01/07/20 11:23	1

Lab Sample ID: LCS 580-319992/2-A
Matrix: Water
Analysis Batch: 320112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 319992

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	8.00	4.90		ug/L		61	39 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	84		48 - 143

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 580-319992/3-A
Matrix: Water
Analysis Batch: 320112

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 319992

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol			8.00	3.63		ug/L		45	39 - 150	30	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*76*		*48 - 143*

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: BXS-1
Date Collected: 12/28/19 16:05
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		100	320188	01/08/20 12:54	RSB	TAL SEA

Client Sample ID: BXS-2
Date Collected: 12/29/19 08:46
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 17:00	CJ	TAL SEA

Client Sample ID: MW-2
Date Collected: 12/28/19 11:16
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 17:25	CJ	TAL SEA

Client Sample ID: MW-3
Date Collected: 12/29/19 12:54
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		10000	320188	01/08/20 13:19	RSB	TAL SEA
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		100	320188	01/08/20 14:16	RSB	TAL SEA

Client Sample ID: HCMW-7
Date Collected: 12/28/19 10:14
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 18:14	CJ	TAL SEA

Client Sample ID: MW-15
Date Collected: 12/28/19 14:20
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 18:39	CJ	TAL SEA

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-16
Date Collected: 12/28/19 10:48
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 19:03	CJ	TAL SEA

Client Sample ID: MW-17
Date Collected: 12/28/19 15:07
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 19:28	CJ	TAL SEA

Client Sample ID: MW-18
Date Collected: 12/28/19 08:29
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 19:53	CJ	TAL SEA

Client Sample ID: MW-22
Date Collected: 12/29/19 11:10
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 20:18	CJ	TAL SEA

Client Sample ID: MW-23
Date Collected: 12/29/19 10:40
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 20:42	CJ	TAL SEA

Client Sample ID: MW-24
Date Collected: 12/29/19 10:15
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 21:07	CJ	TAL SEA

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-25
Date Collected: 12/29/19 11:55
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		100	320188	01/08/20 13:43	RSB	TAL SEA

Client Sample ID: MW-26
Date Collected: 12/29/19 09:18
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 21:57	CJ	TAL SEA

Client Sample ID: MW-27
Date Collected: 12/29/19 09:47
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319940	12/31/19 16:06	JCM	TAL SEA
Total/NA	Analysis	8270D SIM		1	320109	01/07/20 22:21	CJ	TAL SEA

Client Sample ID: MW-28
Date Collected: 12/29/19 08:21
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM		1	320112	01/07/20 12:41	CJ	TAL SEA

Client Sample ID: MW-29
Date Collected: 12/28/19 13:11
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM		1	320112	01/07/20 13:08	CJ	TAL SEA

Client Sample ID: MW-30
Date Collected: 12/28/19 11:49
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM		1	320112	01/07/20 13:34	CJ	TAL SEA

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-31
Date Collected: 12/29/19 13:52
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM		1	320112	01/07/20 14:00	CJ	TAL SEA

Client Sample ID: MW-32
Date Collected: 12/29/19 11:33
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL		319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM	DL	100	320191	01/08/20 12:28	T1W	TAL SEA

Client Sample ID: MW-33
Date Collected: 12/29/19 12:28
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL2		319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM	DL2	10	320290	01/09/20 14:37	W1T	TAL SEA

Client Sample ID: MW-34
Date Collected: 12/28/19 12:17
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM		1	320112	01/07/20 15:19	CJ	TAL SEA

Client Sample ID: MW-35
Date Collected: 12/29/19 13:25
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL		319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM	DL	5	320191	01/08/20 13:20	T1W	TAL SEA

Client Sample ID: MW-36
Date Collected: 12/28/19 15:40
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM		1	320112	01/07/20 16:12	CJ	TAL SEA

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: MW-38
Date Collected: 12/28/19 12:43
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL2		319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM	DL2	10	320290	01/09/20 15:03	W1T	TAL SEA

Client Sample ID: MW-40
Date Collected: 12/28/19 14:41
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL		319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM	DL	100	320191	01/08/20 14:13	T1W	TAL SEA

Client Sample ID: MW-42
Date Collected: 12/28/19 09:04
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM		1	320112	01/07/20 17:31	CJ	TAL SEA

Client Sample ID: MW-43
Date Collected: 12/28/19 09:41
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM		1	320112	01/07/20 17:57	CJ	TAL SEA

Client Sample ID: Field Blank
Date Collected: 12/29/19 12:45
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM		1	320112	01/07/20 18:23	CJ	TAL SEA

Client Sample ID: MW-45
Date Collected: 12/29/19 13:30
Date Received: 12/30/19 12:20

Lab Sample ID: 580-91765-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C	DL		319992	01/03/20 20:30	PRO	TAL SEA
Total/NA	Analysis	8270D SIM	DL	5	320191	01/08/20 14:39	T1W	TAL SEA

Lab Chronicle

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Client Sample ID: EW-1

Lab Sample ID: 580-91765-31

Date Collected: 12/29/19 09:40
Matrix: Water
Date Received: 12/30/19 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			319965	01/02/20 12:44	FCG	TAL SEA
Total/NA	Analysis	8270D		1	320186	01/08/20 19:17	T1W	TAL SEA

Client Sample ID: EW-4

Lab Sample ID: 580-91765-32

Date Collected: 12/28/19 09:30
Matrix: Water
Date Received: 12/30/19 12:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			319965	01/02/20 12:44	FCG	TAL SEA
Total/NA	Analysis	8270D		1	320186	01/08/20 19:40	T1W	TAL SEA
Total/NA	Prep	3520C	DL		319965	01/02/20 12:44	FCG	TAL SEA
Total/NA	Analysis	8270D	DL	25	320795	01/16/20 13:08	T1W	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: J. H. Baxter & Co.
Job ID: 580-91765-1
Project/Site: Arlington, WA Groundwater

Laboratory: Eurofins TestAmerica, Seattle

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-024	01-19-22
ANAB	Dept. of Defense ELAP	L2236	01-19-22
ANAB	ISO/IEC 17025	L2236	01-19-22
California	State	2901	11-05-20
Montana (UST)	State	NA	04-13-21
Oregon	NELAP	WA100007	11-06-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00039	02-10-20
Washington	State	C553	02-17-20

Sample Summary

Client: J. H. Baxter & Co.
Project/Site: Arlington, WA Groundwater

Job ID: 580-91765-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-91765-1	BXS-1	Water	12/28/19 16:05	12/30/19 12:20	
580-91765-2	BXS-2	Water	12/29/19 08:46	12/30/19 12:20	
580-91765-3	MW-2	Water	12/28/19 11:16	12/30/19 12:20	
580-91765-4	MW-3	Water	12/29/19 12:54	12/30/19 12:20	
580-91765-5	HCMW-7	Water	12/28/19 10:14	12/30/19 12:20	
580-91765-6	MW-15	Water	12/28/19 14:20	12/30/19 12:20	
580-91765-7	MW-16	Water	12/28/19 10:48	12/30/19 12:20	
580-91765-8	MW-17	Water	12/28/19 15:07	12/30/19 12:20	
580-91765-9	MW-18	Water	12/28/19 08:29	12/30/19 12:20	
580-91765-10	MW-22	Water	12/29/19 11:10	12/30/19 12:20	
580-91765-11	MW-23	Water	12/29/19 10:40	12/30/19 12:20	
580-91765-12	MW-24	Water	12/29/19 10:15	12/30/19 12:20	
580-91765-13	MW-25	Water	12/29/19 11:55	12/30/19 12:20	
580-91765-14	MW-26	Water	12/29/19 09:18	12/30/19 12:20	
580-91765-15	MW-27	Water	12/29/19 09:47	12/30/19 12:20	
580-91765-16	MW-28	Water	12/29/19 08:21	12/30/19 12:20	
580-91765-17	MW-29	Water	12/28/19 13:11	12/30/19 12:20	
580-91765-18	MW-30	Water	12/28/19 11:49	12/30/19 12:20	
580-91765-19	MW-31	Water	12/29/19 13:52	12/30/19 12:20	
580-91765-20	MW-32	Water	12/29/19 11:33	12/30/19 12:20	
580-91765-21	MW-33	Water	12/29/19 12:28	12/30/19 12:20	
580-91765-22	MW-34	Water	12/28/19 12:17	12/30/19 12:20	
580-91765-23	MW-35	Water	12/29/19 13:25	12/30/19 12:20	
580-91765-24	MW-36	Water	12/28/19 15:40	12/30/19 12:20	
580-91765-25	MW-38	Water	12/28/19 12:43	12/30/19 12:20	
580-91765-26	MW-40	Water	12/28/19 14:41	12/30/19 12:20	
580-91765-27	MW-42	Water	12/28/19 09:04	12/30/19 12:20	
580-91765-28	MW-43	Water	12/28/19 09:41	12/30/19 12:20	
580-91765-29	Field Blank	Water	12/29/19 12:45	12/30/19 12:20	
580-91765-30	MW-45	Water	12/29/19 13:30	12/30/19 12:20	
580-91765-31	EW-1	Water	12/29/19 09:40	12/30/19 12:20	
580-91765-32	EW-4	Water	12/28/19 09:30	12/30/19 12:20	

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: MATT Hansen	Lab PM: Cruz, Sheri L	Carrier Tracking No(s):	COC No: 580-37030-11863.1
Client Contact: Josh Bale	Phone:	E-Mail: sheri.cruz@testamericainc.com		Page: Page 1 of 4
Company: GSI Water Solutions, Inc		Analysis Requested		Job #: 21765
Address: 55 SW Yamhill Street Suite 300	Due Date Requested:			Preservation Codes:
City: Portland	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: OR, 97204				
Phone: 650-34-0201(Tel) 650-570-6878(Fax)	PO #: not needed			
Email: jbale@gsiws.com	WO #:			
Project Name: Arlington, WA Groundwater	Project #: 58014229			
Site:	SSOW#:			

580-91765 Chain of Custody

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - Pentachlorophenol	8270D - (MOD) Phenols	Special Instructions/Note:
				Preservation Code:				N	N	
-1	BXS-1	12/28/19	1605		Water			X		
	BXS-2	12/29/19	0846		Water					
-3	MW-2	12/29/19	1116		Water					
	MW-3	12/29/19	1254		Water					
-5	HCMW-7	12/29/19	1014		Water					
	MW-15	1	1420		Water					
-7	MW-16	12/28/19	1048		Water					
	MW-17	1	1507		Water					
-9	MW-18	12/28/19	0829		Water					
	MW-22	12/29/19	1110		Water					
-11	MW-23	12/29/19	1040		Water			X		

Therm. ID: IR7 Cor: 1.0 ° Unc: 1.3 °
Cooler Dsc: Lg Blue
Packing: bub
Cust. Seal: Yes ___ No X
Blue Ice (Wet), Dry, None
FedEx: ___ UPS: ___ Lab Cour: ___ Other: PriCou

Therm. ID: IR7 Cor: 2.1 ° Unc: 2.4 °
Cooler Dsc: Lg Blue
Packing: bub
Cust. Seal: Yes ___ No X
Blue Ice, (Wet) Dry, None
FedEx: ___ UPS: ___ Lab Cour: ___ Other: ___

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ___ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
MATT Hansen	12/30/19 0930	Gsiw	Tom [signature]	12/30/19 1220	TA-Sea
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: Matt Hanson	Lab PM: Cruz, Sheri L	Carrier Tracking No(s):	COC No: 580-37030-11863.2
Client Contact: Josh Bale	Phone:	E-Mail: sheri.cruz@testamericainc.com		Page: Page 2 of 4
Company: GSI Water Solutions, Inc				Job #: 91765
Address: 55 SW Yamhill Street Suite 300	Due Date Requested:			
City: Portland	TAT Requested (days):			
State, Zip: OR, 97204				
Phone: 650-34-0201(Tel) 650-570-6878(Fax)	PO #: not needed			
Email: jbale@gsiws.com	WO #:			
Project Name: Arlington, WA Groundwater	Project #: 58014229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - Pentachlorophenol	8270D - (MOD) Phenols	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N		
MW-24	12/29/19	1015		Water			X			
-13 MW-25		1155		Water						
MW-26		0918		Water						
-15 MW-27		0947		Water						
MW-28	12/29/19	0821		Water						
-17 MW-29	12/29/19	1311		Water						
MW-30	12/29/19	1149		Water						
-19 MW-31	12/29/19	1352		Water						
MW-32		1133		Water						
-21 MW-33	12/29/19	1228		Water						
MW-34	12/28/19	1217		Water			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Matt Hanson	12/30/19 0730	Gsiwa			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: Matt Hauser	Lab PM: Cruz, Sheri L	Carrier Tracking No(s):	COC No: 580-37030-11863.3
Client Contact: Josh Bale	Phone:	E-Mail: sheri.cruz@testamericainc.com		Page: Page 3 of 4
Company: GSI Water Solutions, Inc				Job #: 91765
Address: 55 SW Yamhill Street Suite 300	Due Date Requested:			
City: Portland	TAT Requested (days):			
State, Zip: OR, 97204				
Phone: 650-34-0201(Tel) 650-570-6878(Fax)	PO #: not needed			
Email: jbale@gsiws.com	WO #:			
Project Name: Arlington, WA Groundwater	Project #: 58014229			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D_SIM - Pentachlorophenol	8270D - (MOD) Phenols	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N		
-23	MW-35	12/29/19	1325		Water			X			
	MW-36	12/28/19	1540		Water						
-25	MW-38	"	1243		Water						
	MW-40	"	1441		Water						
-27	MW-42	"	0904		Water						
	MW-43	12/28/19	0941		Water						
-29	FIELD Blank	12/29/19	1245		Water						
	MW-45	"	1330		Water						
-31	EW-1	"	0940		Water						
	EW-4	12/28/19	0930		Water						
					Water			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Matt Hauser	12/30/19 0730	GSI			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: J. H. Baxter & Co.

Job Number: 580-91765-1

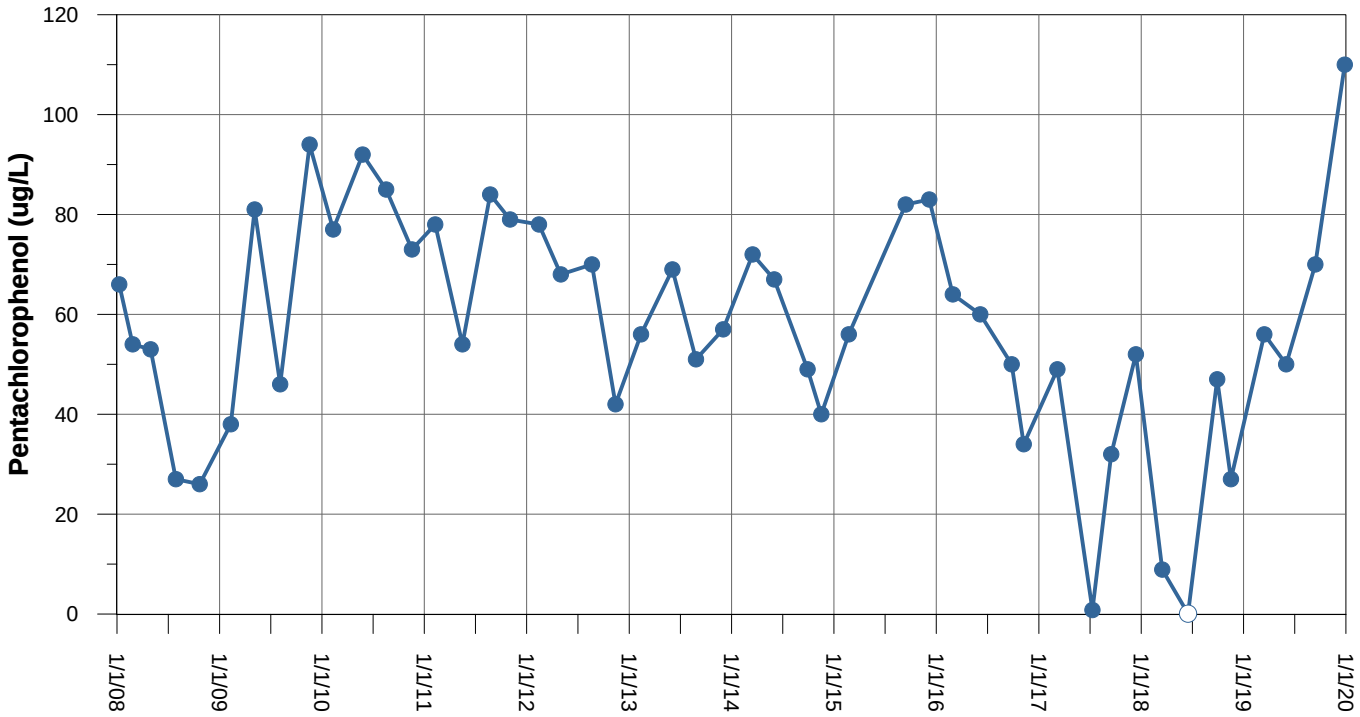
Login Number: 91765
List Number: 1
Creator: Blankinship, Tom X

List Source: Eurofins TestAmerica, Seattle

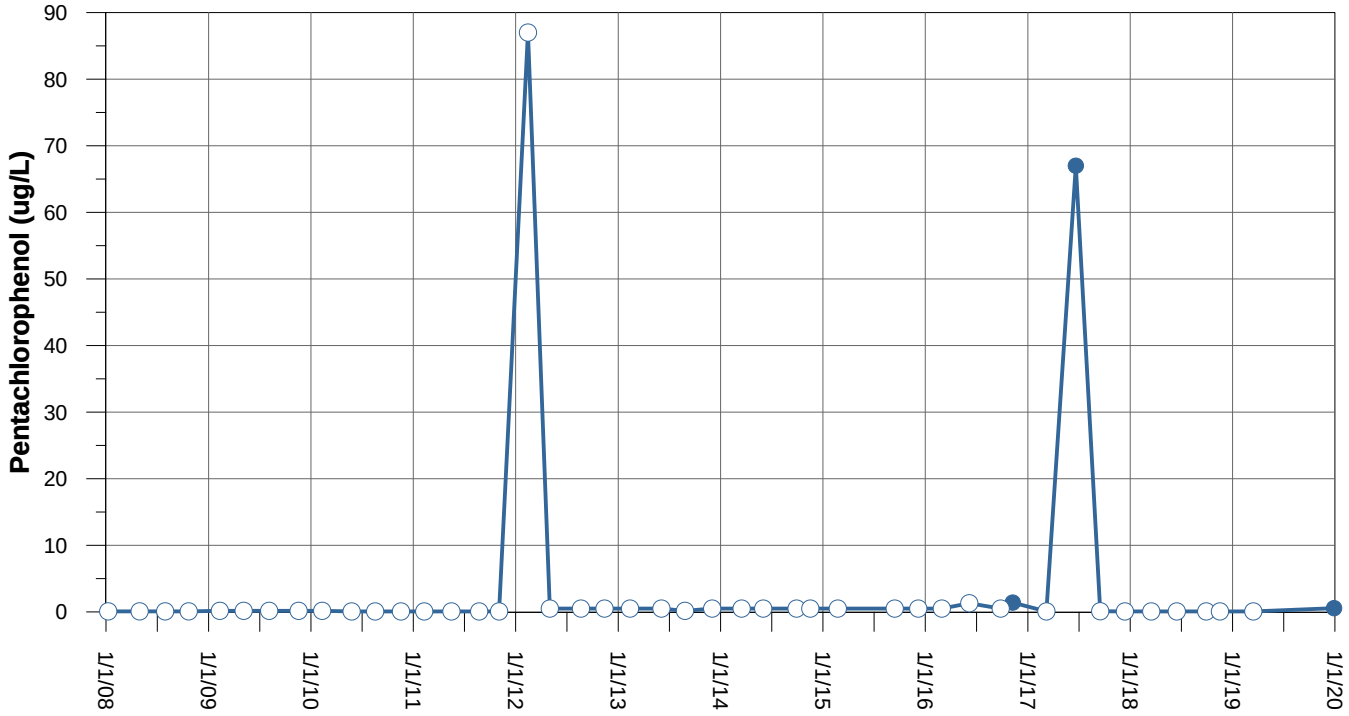
Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C

BXS-1



BXS-2



Legend:

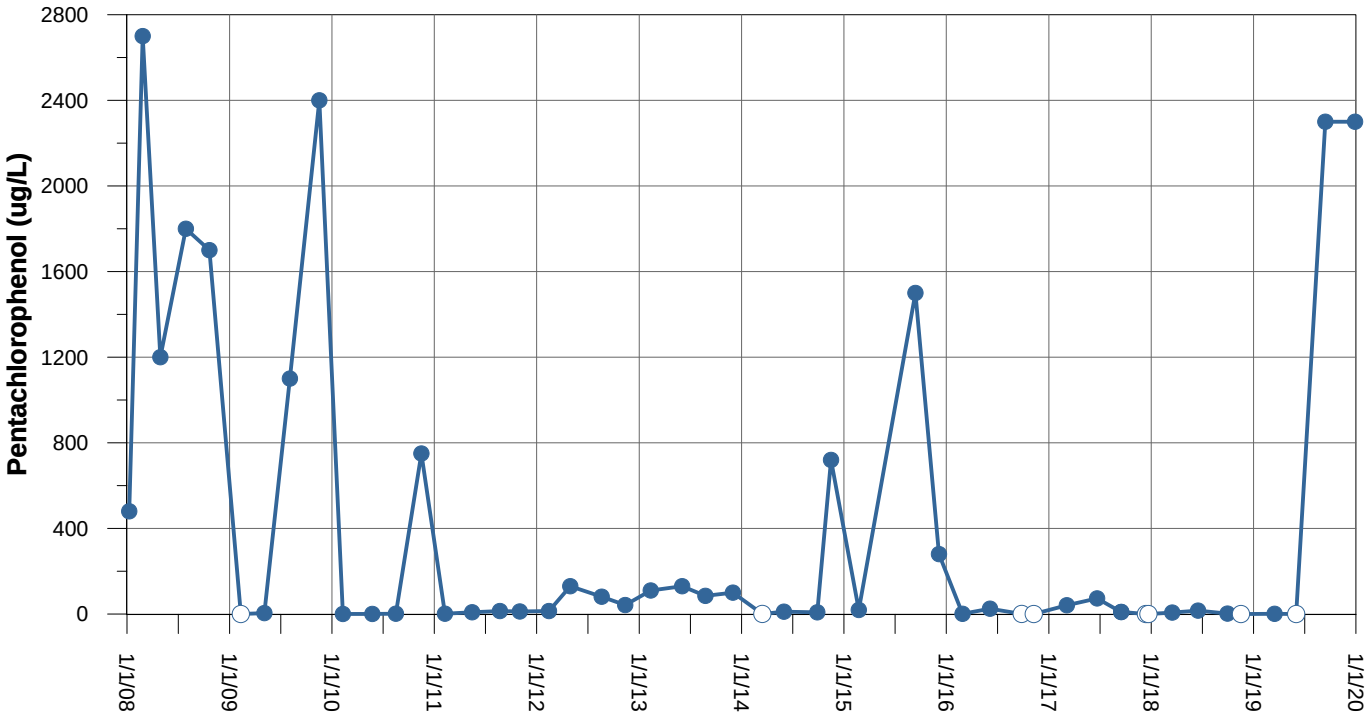
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:
ug/L = microgram per liter

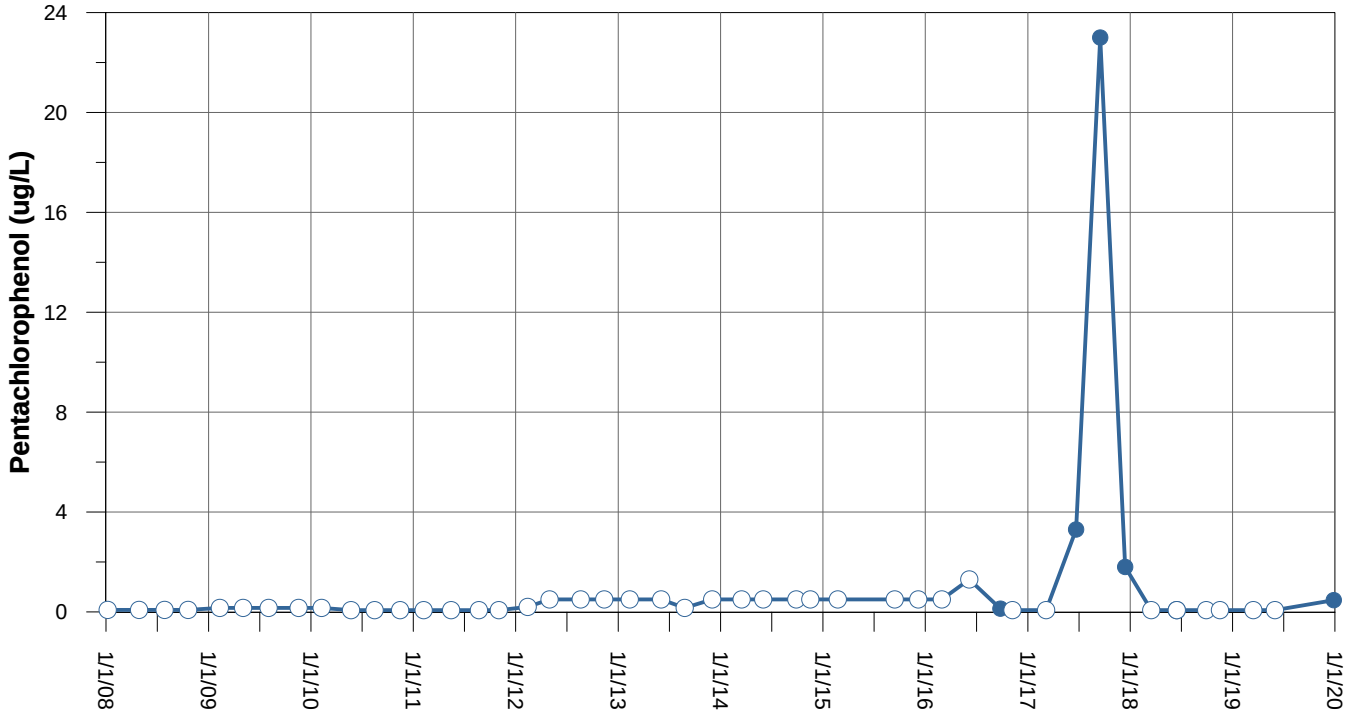
FIGURE C-1
Pentachlorophenol Groundwater Concentrations in BXS-1 and BXS-2
Former J.H. Baxter Wood Treating Facility
Arlington, Washington

GSI Water Solutions, Inc.

MW-3



MW-18



Legend:

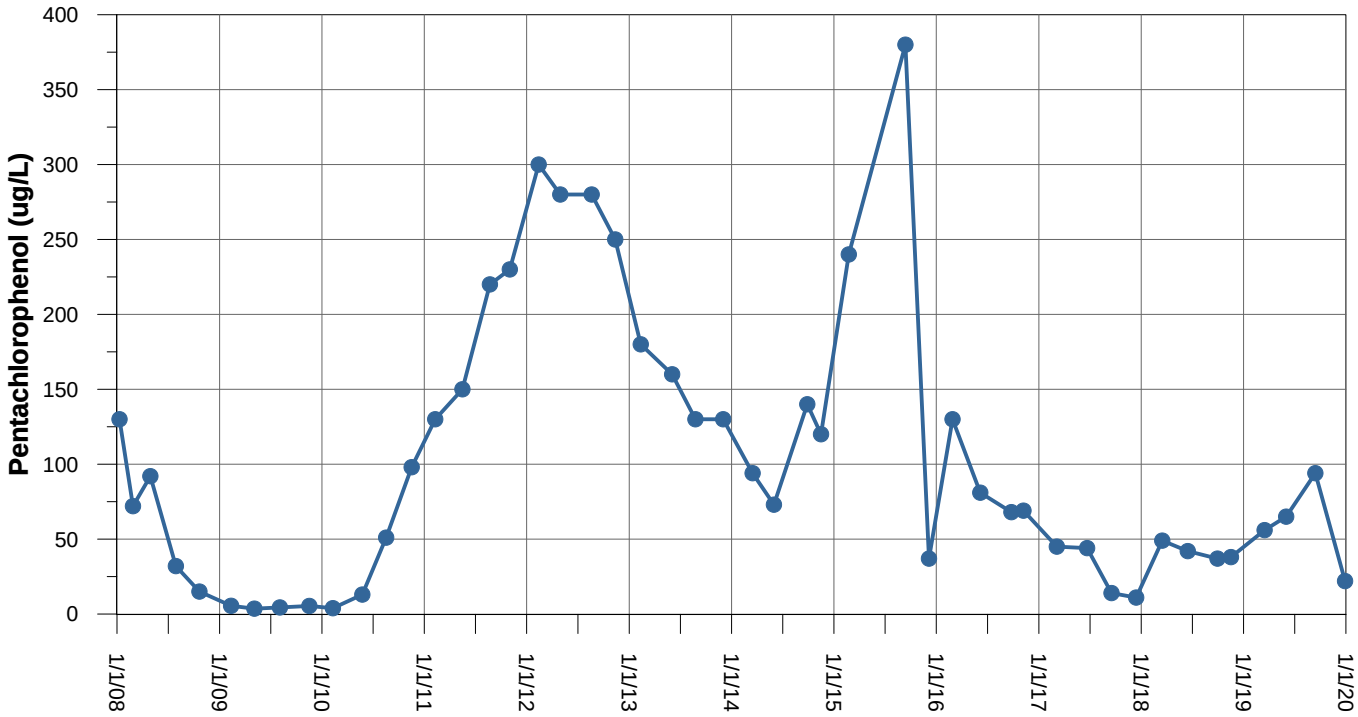
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:
ug/L = microgram per liter

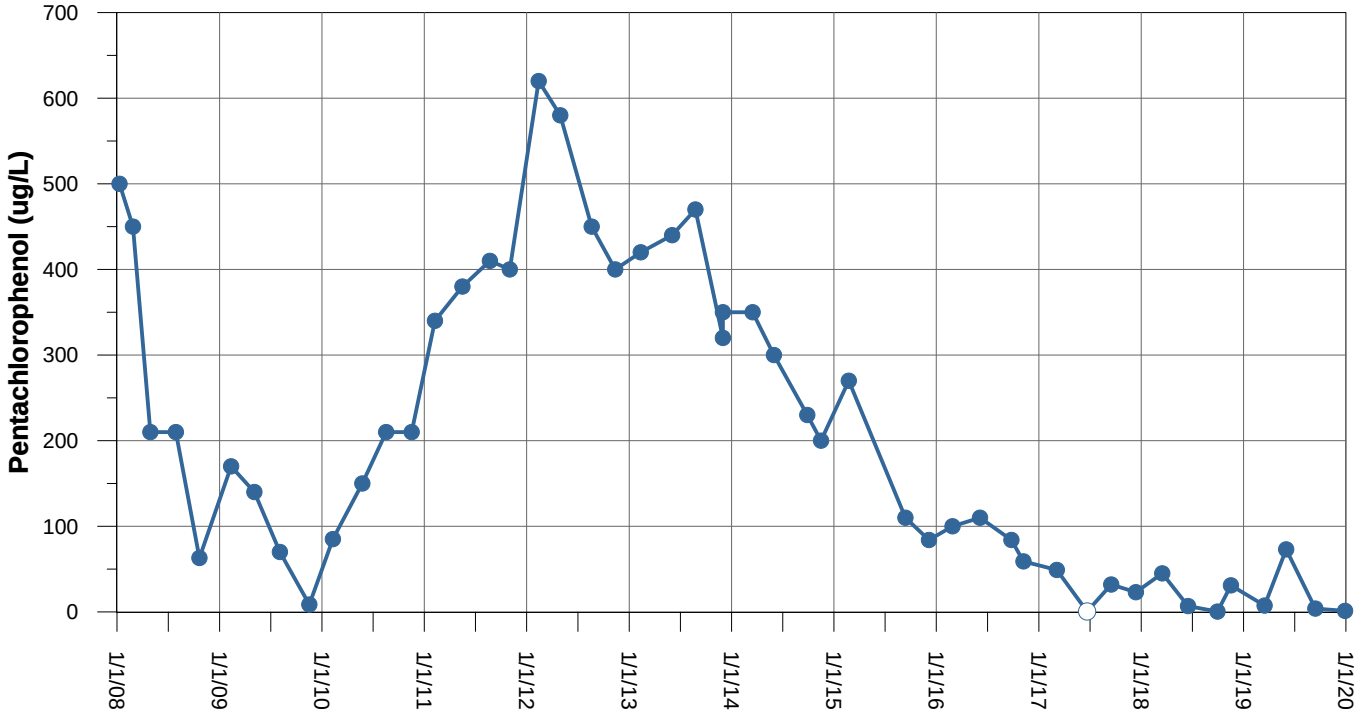
FIGURE C-2
Pentachlorophenol Groundwater Concentrations in MW-3 and MW-18
Former J.H. Baxter Wood Treating Facility
Arlington, Washington

GSI Water Solutions, Inc.

MW-22



MW-23



PAHs not analyzed in MW-22.

Legend:

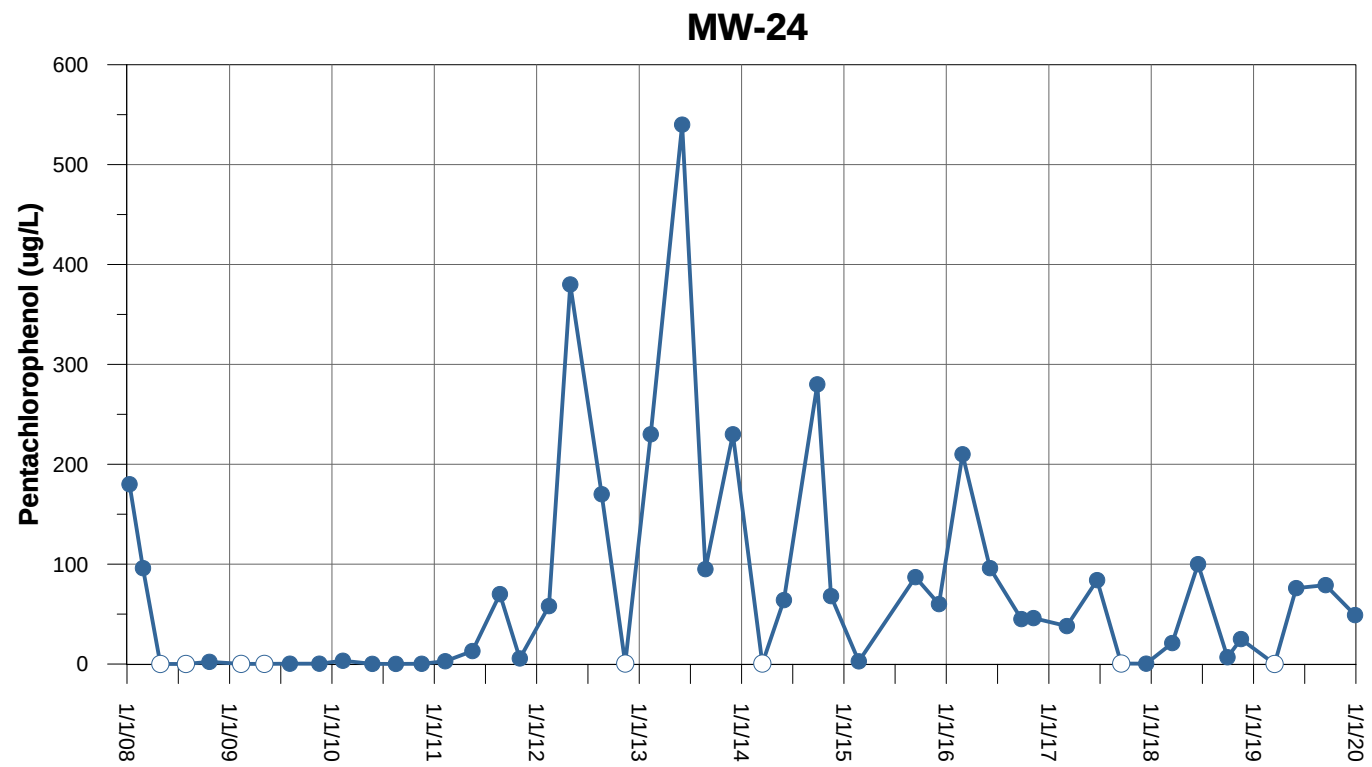
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

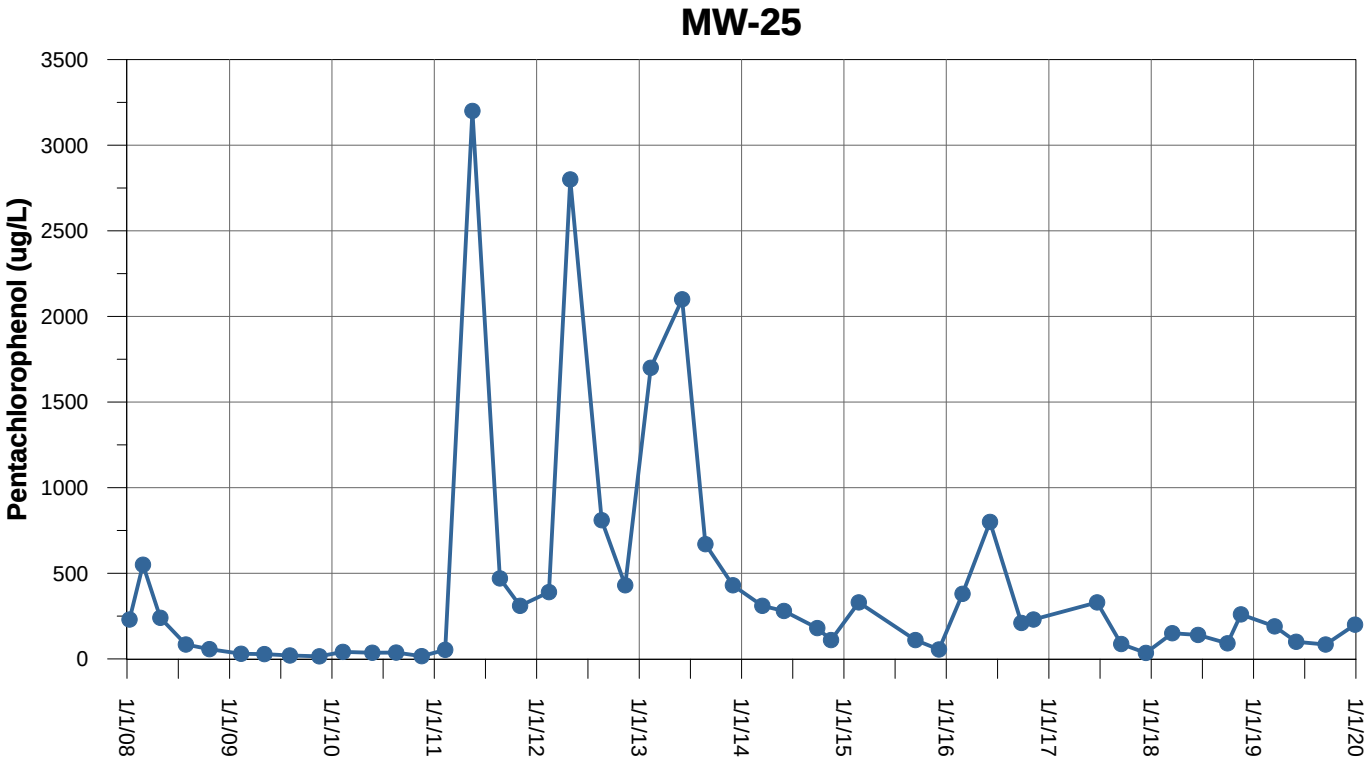
Notes:
ug/L = microgram per liter

FIGURE C-3
Pentachlorophenol Groundwater Concentrations in MW-22 and MW-23

Former J.H. Baxter Wood Treating Facility
Arlington, Washington

GSI Water Solutions, Inc.





Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

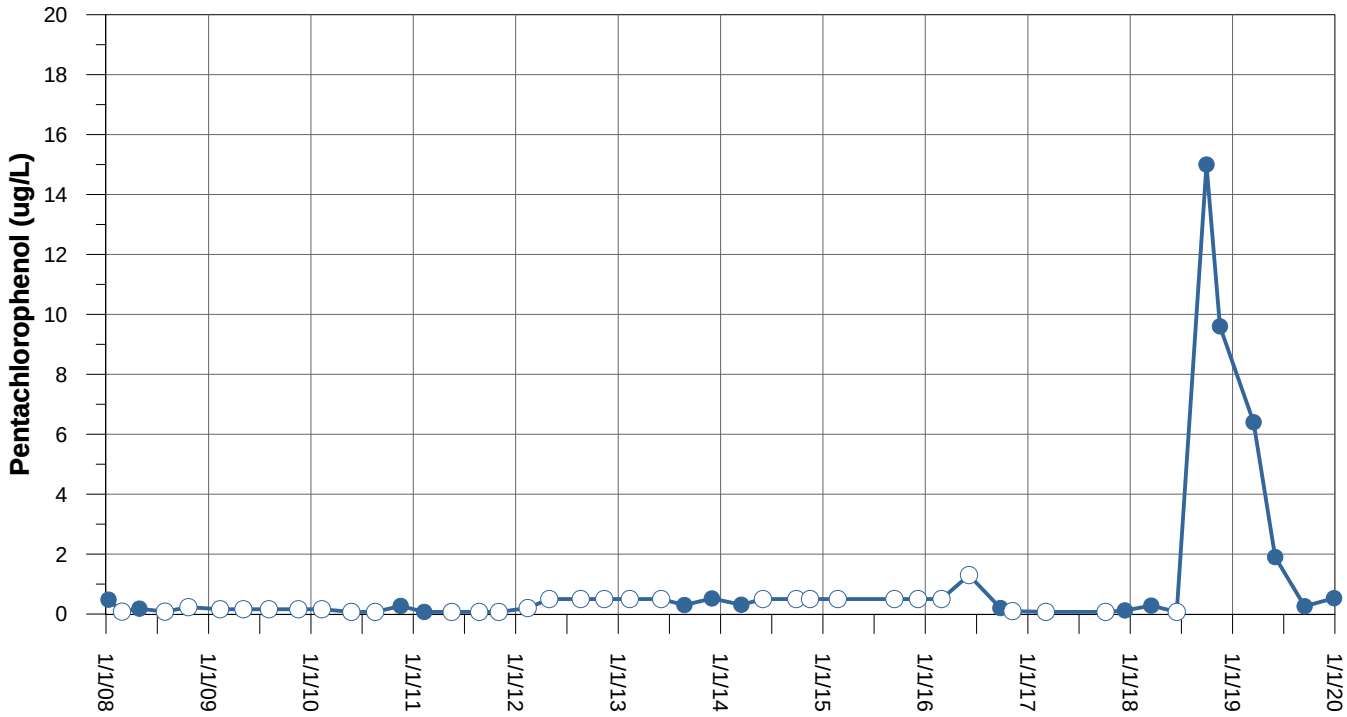
Notes:
ug/L = microgram per liter

FIGURE C-4
Pentachlorophenol Groundwater Concentrations in MW-24 and MW-25

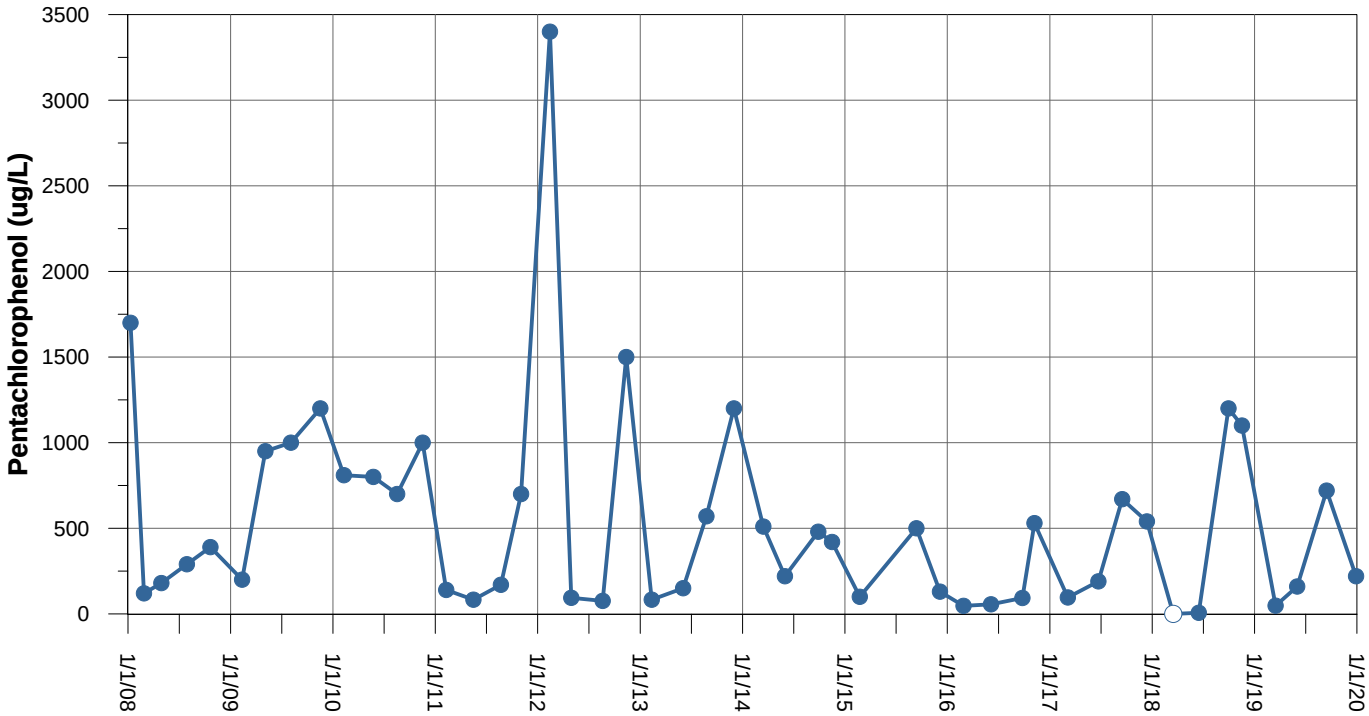
Former J.H. Baxter Wood Treating Facility
Arlington, Washington

GSI Water Solutions, Inc.

MW-27



MW-32



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

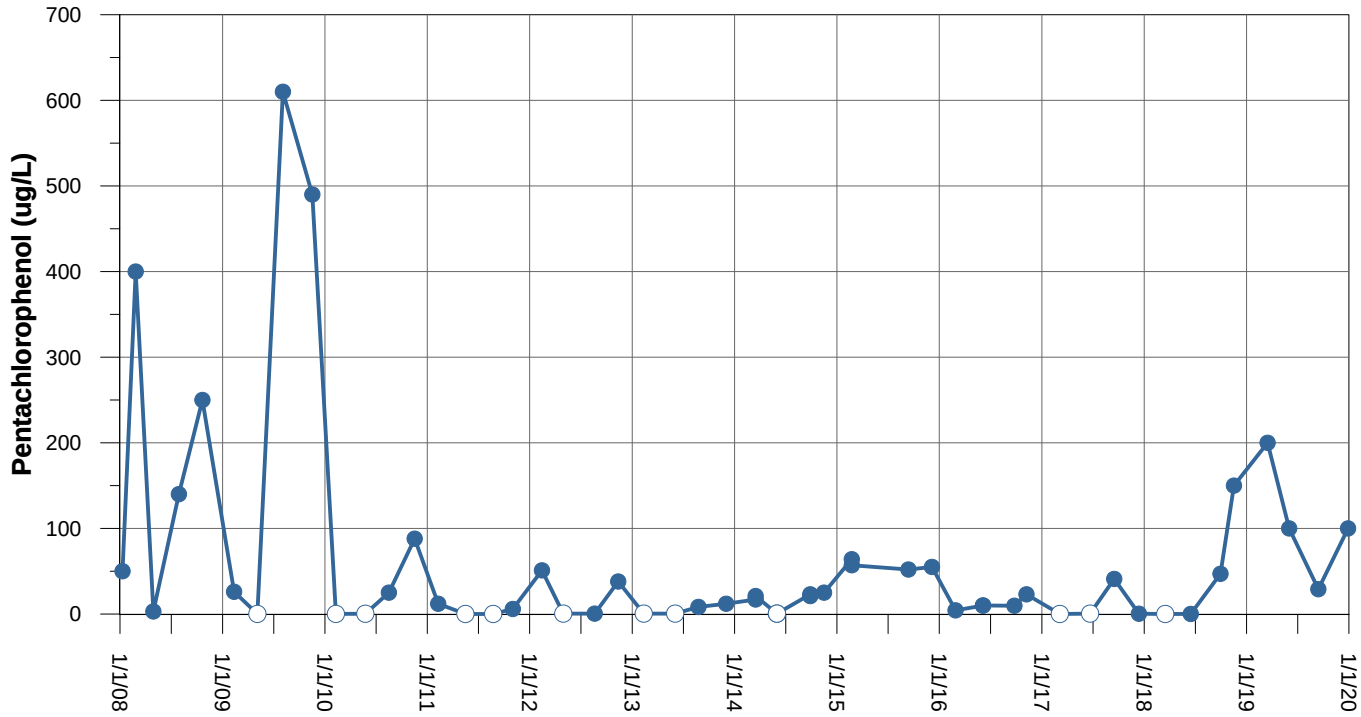
Notes:
ug/L = microgram per liter

FIGURE C-5
Pentachlorophenol Groundwater Concentrations in MW-27 and MW-32

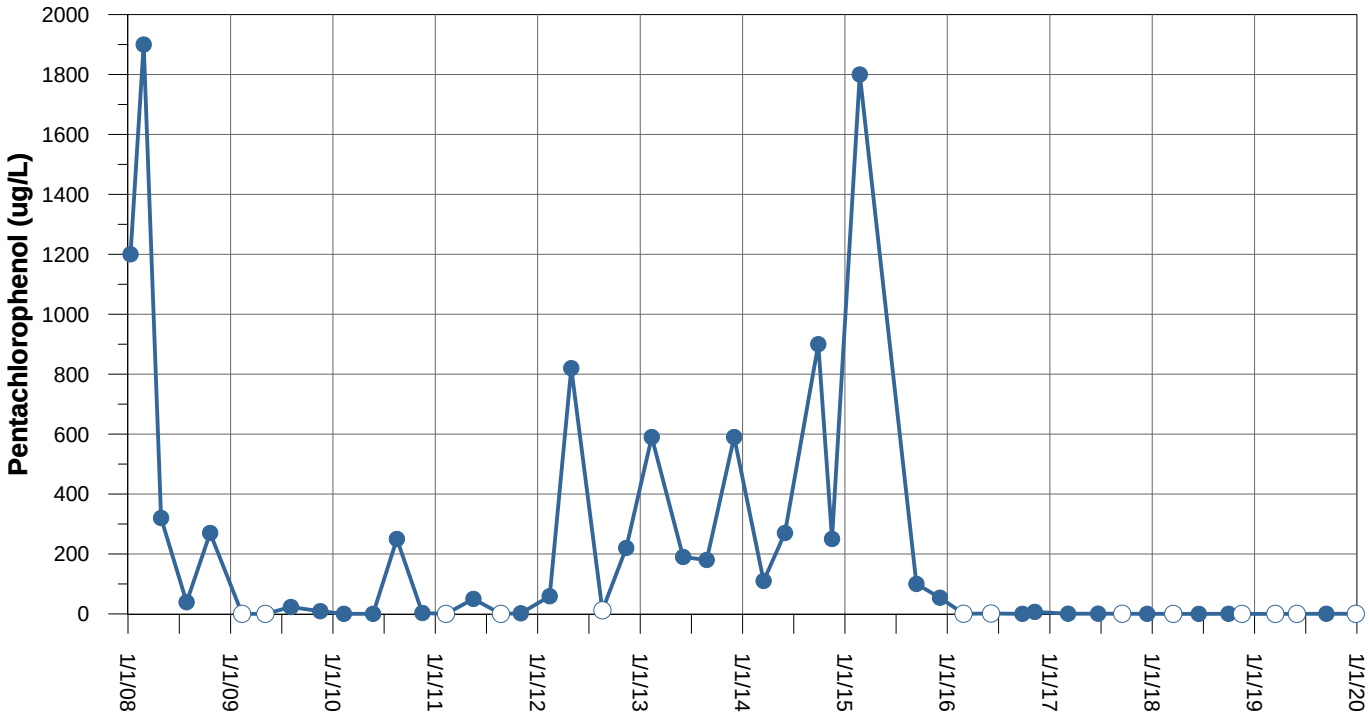
Former J.H. Baxter Wood Treating Facility
Arlington, Washington

GSI Water Solutions, Inc.

MW-33



MW-34



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-6

Pentachlorophenol Groundwater Concentrations in MW-33 and MW-34

Former J.H. Baxter Wood Treating Facility

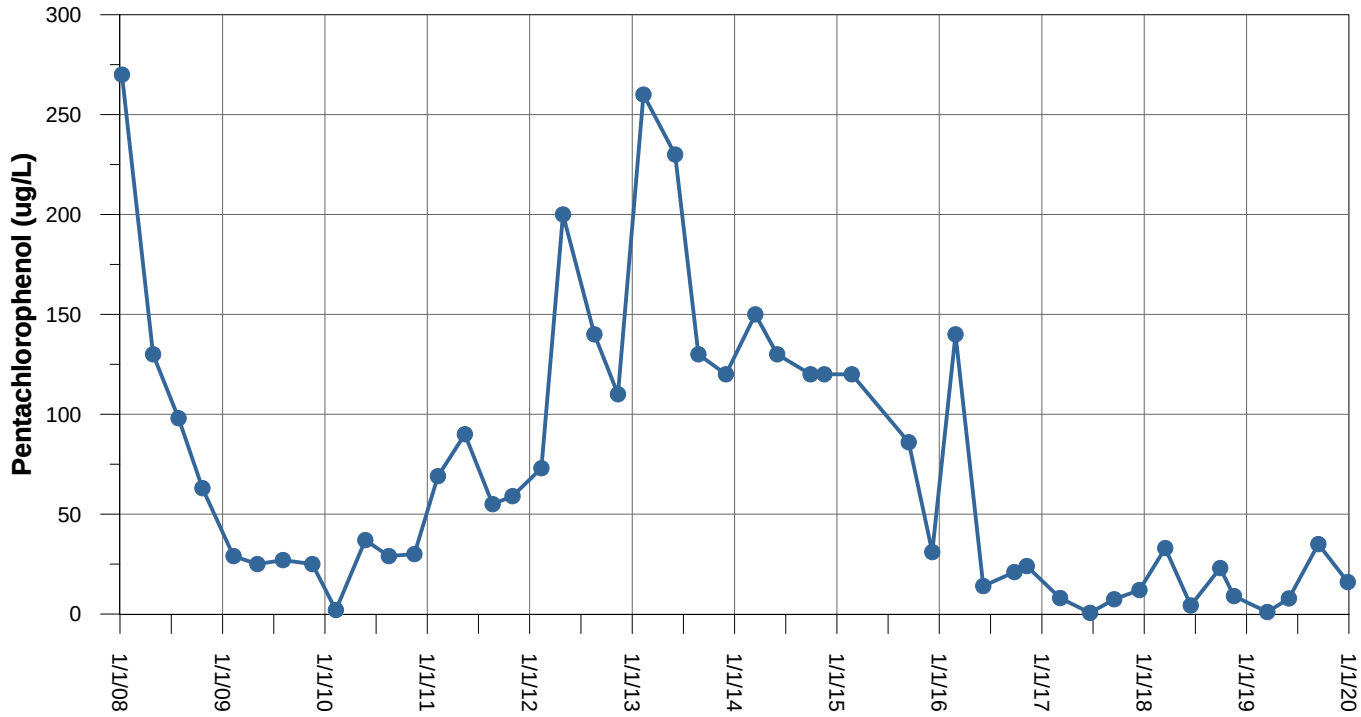
Arlington, Washington

Notes:

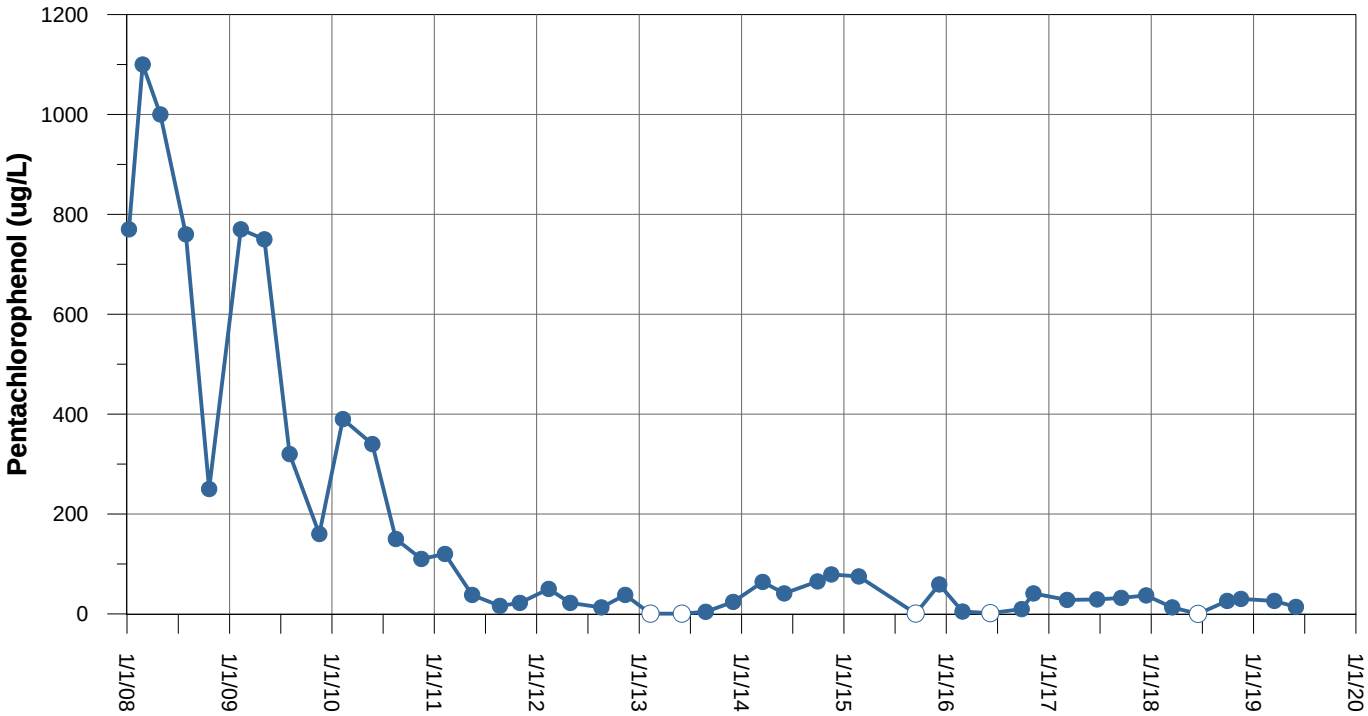
ug/L = microgram per liter

GSI Water Solutions, Inc.

MW-36



MW-37



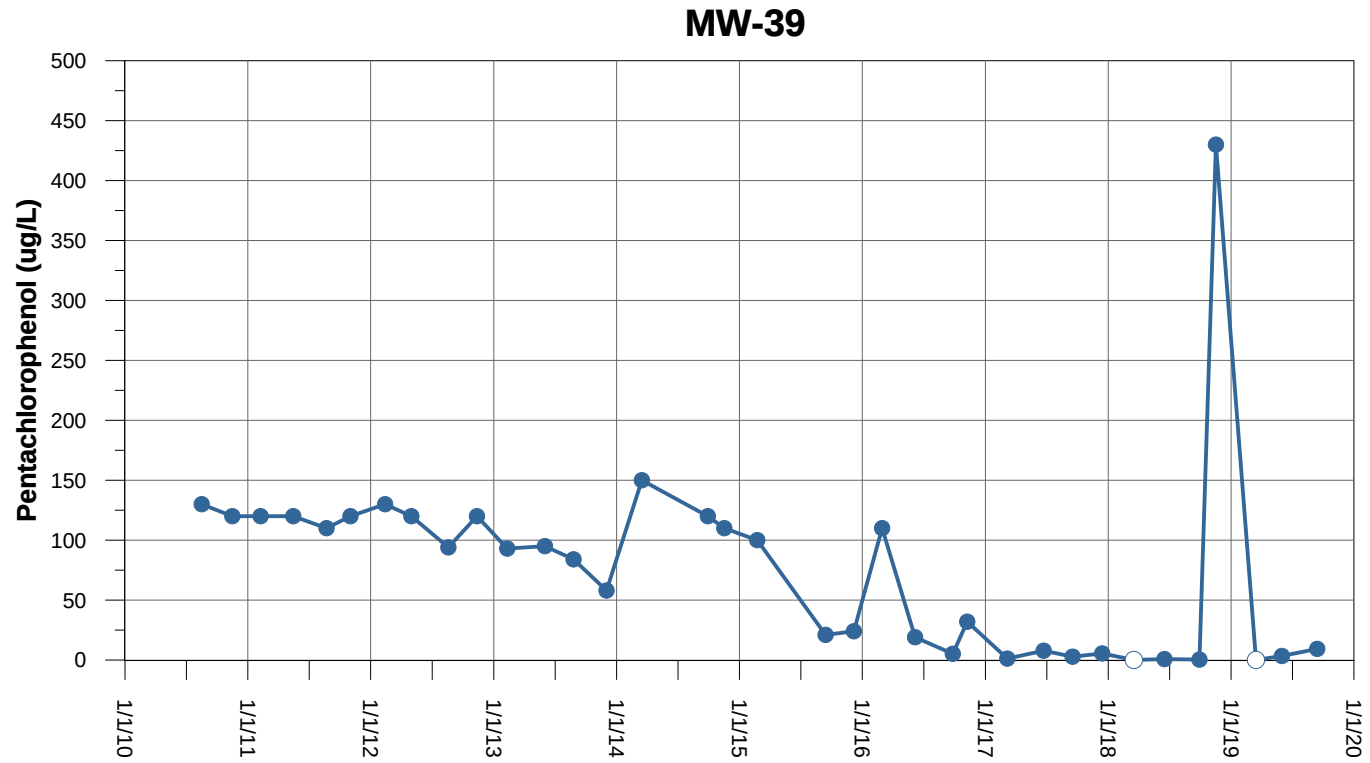
Legend:

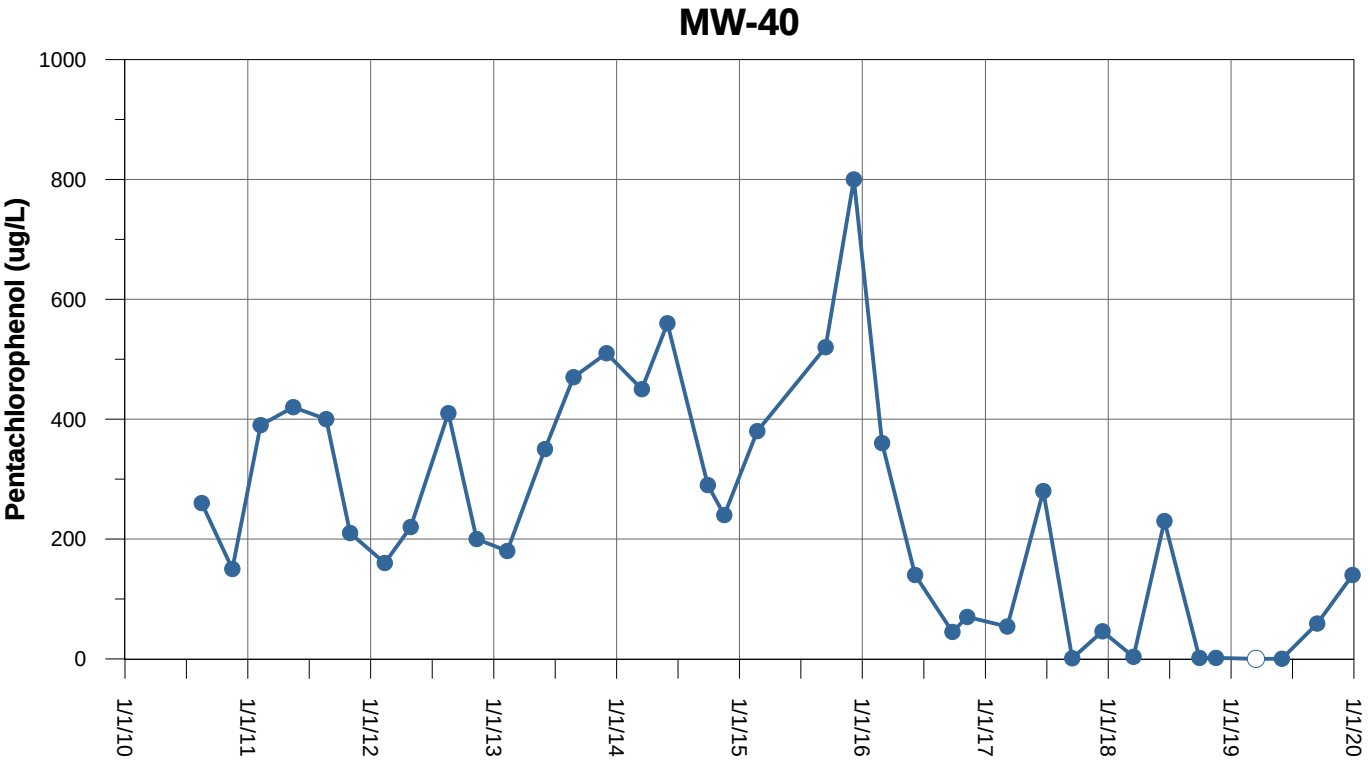
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

Notes:
ug/L = microgram per liter

FIGURE C-7
Pentachlorophenol Groundwater Concentrations in MW-36 and MW-37
Former J.H. Baxter Wood Treating Facility
Arlington, Washington

GSI Water Solutions, Inc.





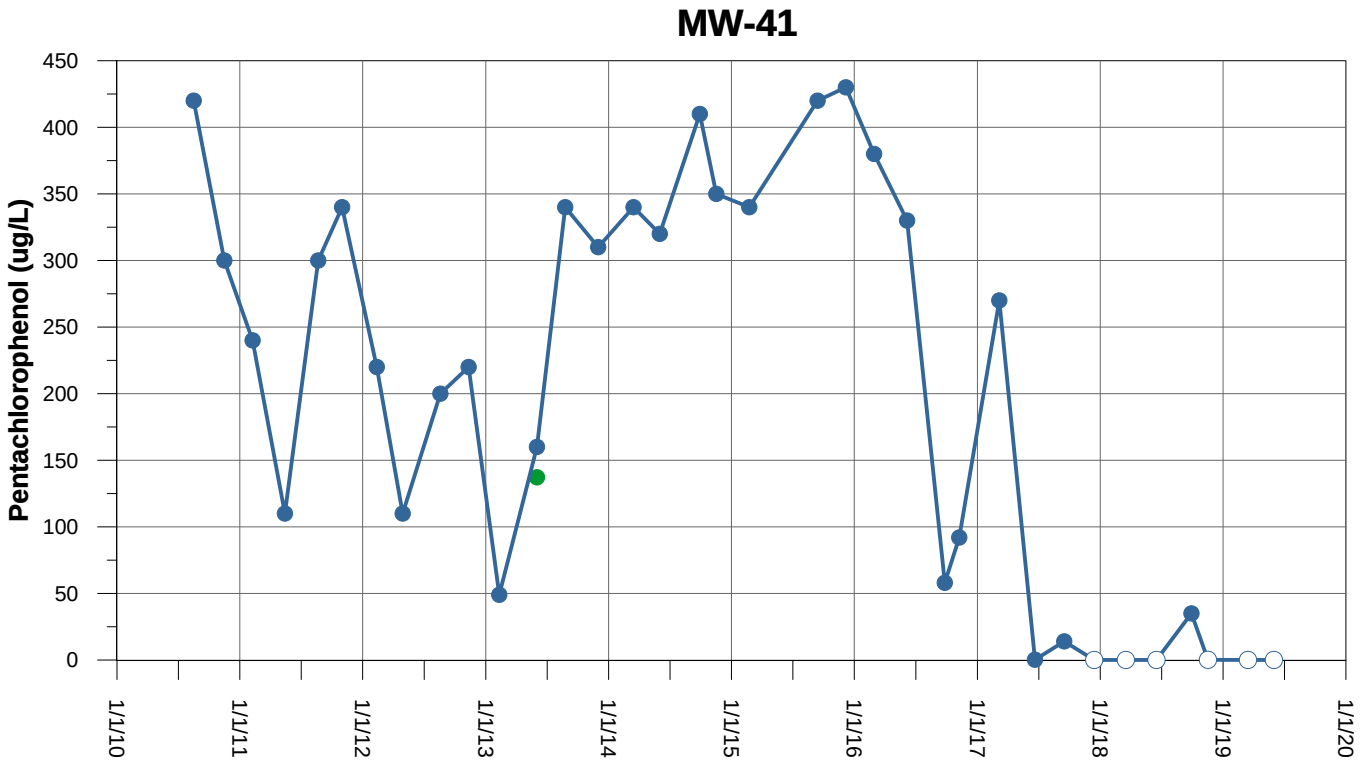
Legend:

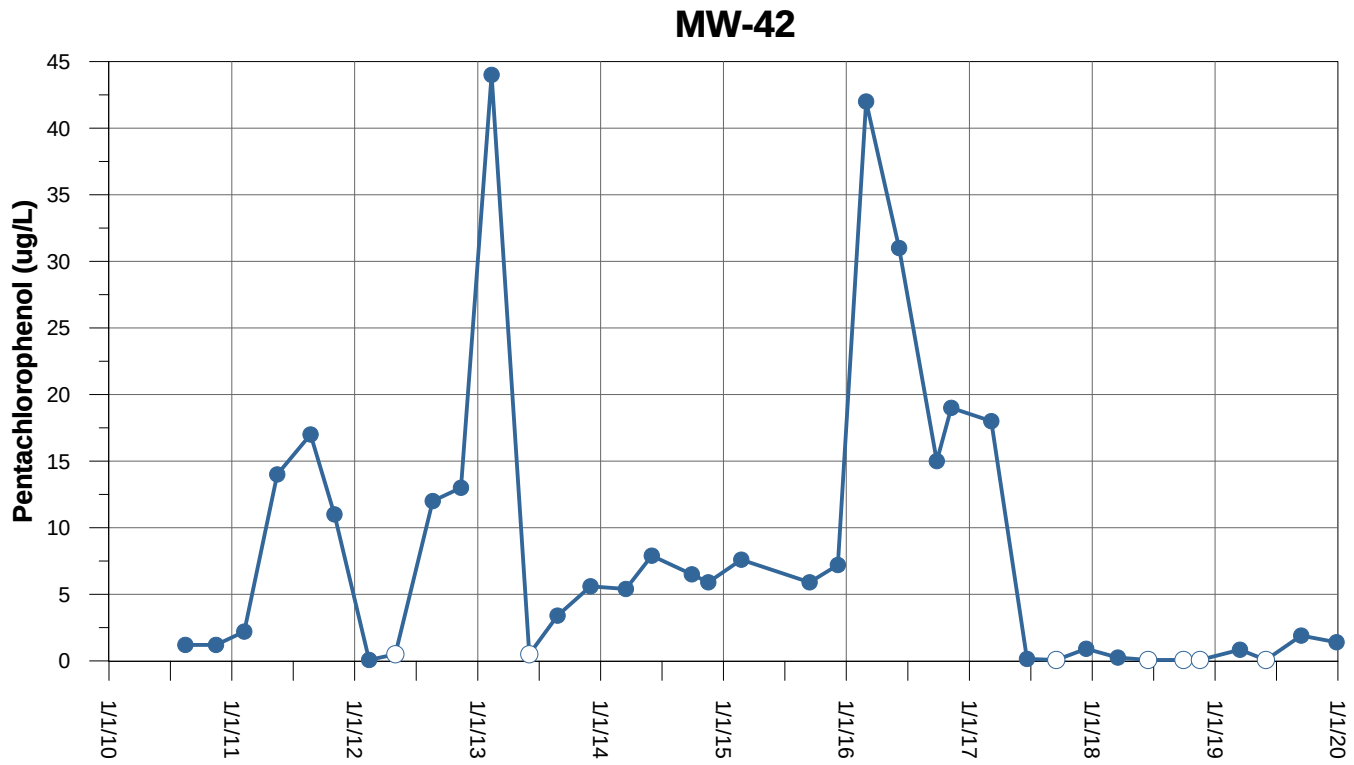
- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-8
Pentachlorophenol Groundwater Concentrations in MW-39 and MW-40
Former J.H. Baxter Wood Treating Facility
Arlington, Washington

Notes:
ug/L = microgram per liter

GSI Water Solutions, Inc.





Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

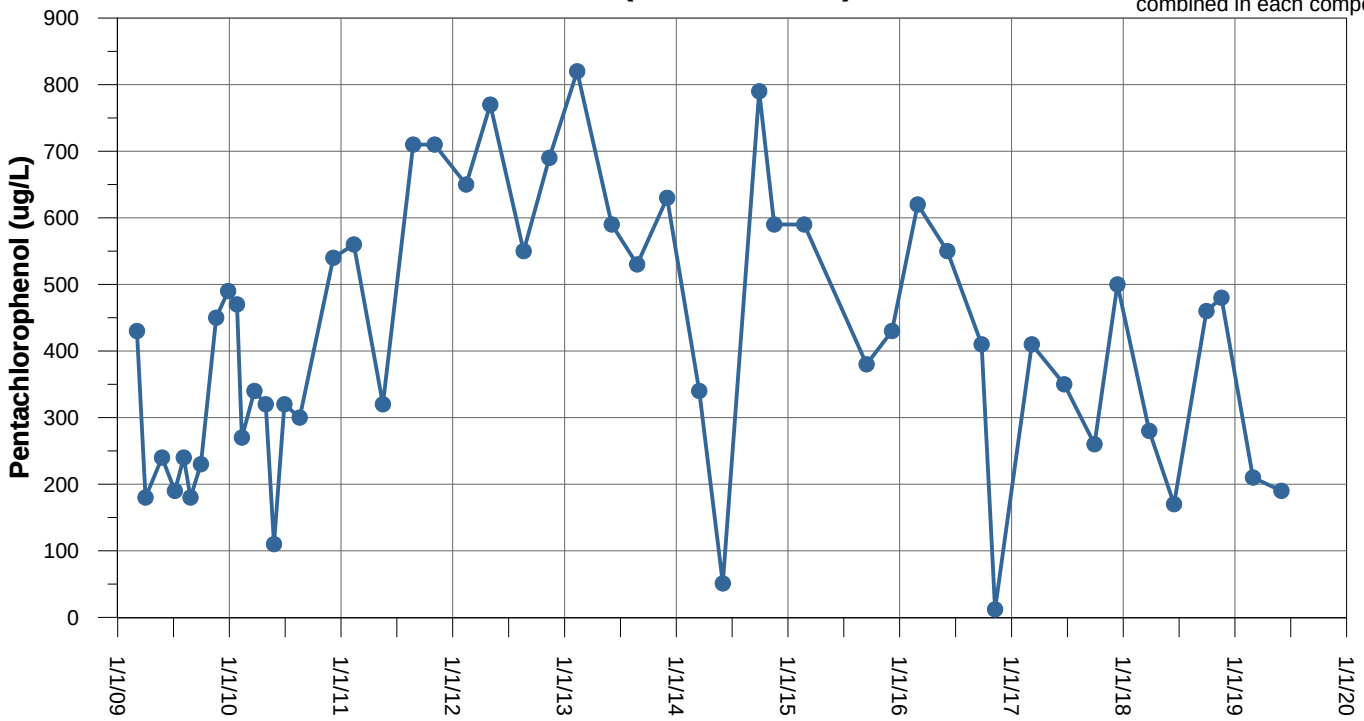
FIGURE C-9
Pentachlorophenol Groundwater Concentrations in MW-41 and MW-42
Former J.H. Baxter Wood Treating Facility
Arlington, Washington

Notes:
ug/L = microgram per liter

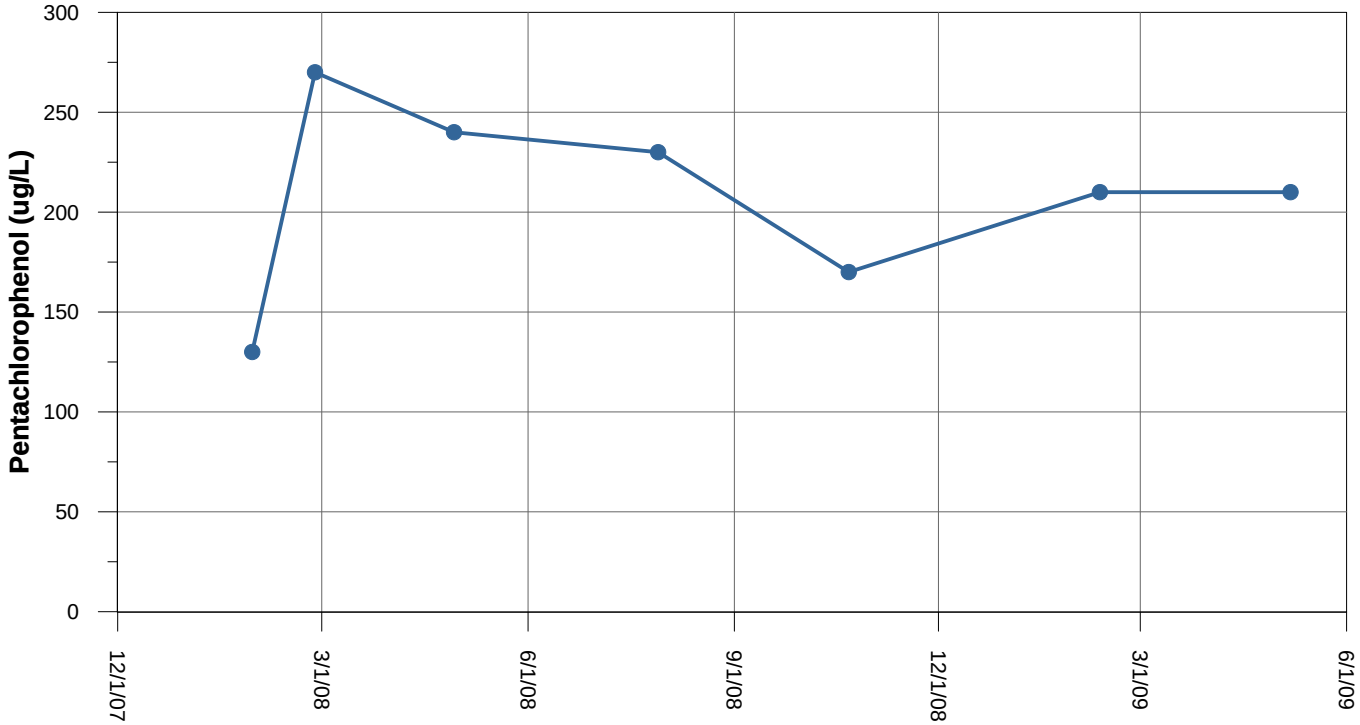
GSI Water Solutions, Inc.

Extraction Well Composites
EPA Method 8270D and 8151M
(2009 - current)

See Table 3C for extraction wells combined in each composite sample.



Extraction Well Composites (EW-1 through EW-7)
EPA Method 8151
(2008 - 2009)



Legend:

- Pentachlorophenol Detected Values
- Pentachlorophenol Non-Detected Values

FIGURE C-10

Pentachlorophenol Groundwater Concentrations in Extraction Well Composite Samples by EPA Method 8270D and 8151

Former J.H. Baxter Wood Treating Facility

Arlington, Washington

GSI Water Solutions, Inc.

Notes:

ug/L = microgram per liter